LEHD Data Documentation LEHD-OVERVIEW-S2008-rev1 LEHD Infrastructure files in the Census RDC – Overview Revision*

by

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Chapter 1.

Overview of LEHD Infrastructure

The Longitudinal Employer-Household Dynamics (LEHD) Infrastructure files available in the Research Data Center (RDC) is structured as individual components. A big-picture overview of it can be found at http://lehd.did.census.gov/led/library/techpapers/tp-2006-01.pdf, which was published as Abowd et al. (2009). Figure 1.1 provides an overview of the flow of data elements through the LEHD data creation process.

Currently, the core outputs of the data creation process are the Quarterly Workforce Indicators (QWI), shown in Figure 1.1, and the OnTheMap (OTM) data. The LEHD Infrastructure files in the RDC environment do not contain any public-use data (both the aggregated QWI and the OTM data are available to the general public), nor does it contain any information related to the disclosure limitation measures used in the QWI (for more information on the disclosure limitation techniques, see Abowd et al. (2006) and Abowd et al. (2006) for a discussion).

1.1 UPDATES

1.1.1 March 2014: Updates to permissions

The information on state-level permissions to use the data for research has been removed from this document, since obsolete. Please contact the RDC administrator to identify conditions under which LEHD data can be used for research purposes.

1.1.2 October 2010: S2008 release

This is the second release of the LEHD Infrastructure files. It contains data that covers the years up to and including 2008Q1. We refer to it as the 'S2008' snapshot of the LEHD Infrastructure files. The data was pulled from LEHD archives as a coherent ensemble in October 2009.

Process ID	Latest creation date
hh	2005-05-21
brb	2005-05-21
ecf	2009-08-12
edf	2009-08-12
ehf	2009-08-07
es202	2009-08-05
gal	2009-08-05
icf	2009-08-12
qwi	2009-08-25
spf	2009-08-12
u2w	2009-08-18

After pulling the files from LEHD production archives, several research-related improvements are made to the files, fixing minor data inconsistencies or updating documentation. In the S008 Snapshot, the SAS

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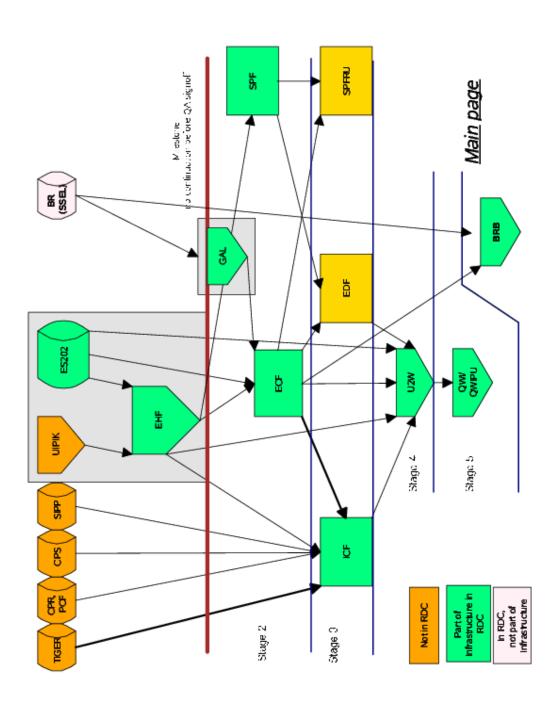


Figure 1.1: Data flow view of LEHD Infrastructure

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CES abbr. CES abbreviation Name and Name of if different FTI version of FTI version abbreviation Business Register Bridge (BRB) (all) ECFT26Employer Characteristics File (ECF) ect Employment History Files (EHF) ES-202 (ES-202) es2ECFT26 ect Individual Characteristics File (ICF) ICFT26 ict Geocoded Address List (GAL) GALT26 gat Quarterly Workforce Indicators (QWI) (establishment level) Successor-Predecessor File (SPF) Unit-to-Worker Impute (U2W)

Table 1.1: LEHD components

header of the files contains an identifier tag that allows to uniquely track (most) files. A "proc contents" can show that information.

1.1.3 August 2008: S2004 release

This is the first release of the LEHD Infrastructure files. It contains data that covers the years up to and including 2004Q1. We refer to it as the 'S2004' snapshot of the LEHD Infrastructure files. The data was pulled from LEHD archives as a coherent ensemble over the course of 2005 and 2006.

Improvements are made to the files, fixing minor data inconsistencies or updating documentation. To identify the version of the files in the data archive, a file called version.txt is at the root of each data directory, e.g., u2w/version.txt. The file will contain the name of the data, the snapshot number, and the date stamp of the most recent file within the data. As of the writing of this document,

```
./brb/version.txt: BRB S2004 2005-06-23
./ecf/version.txt: ECF S2004 2007-05-17
./ehf/version.txt: EHF S2004 2006-03-29
./gal/version.txt: GAL S2004 2008-03-27
./icf/version.txt: ICF S2004 2007-06-01
./u2w/version.txt: U2W S2004 2008-03-27
./qwi/version.txt: QWI S2004 2007-03-30
./spf/version.txt: SPF S2004 2006-06-28
./es202/version.txt: ES202 S2004 2007-02-09
./ecft26/version.txt: ECFT26 S2004 2007-05-17
./galt26/version.txt: GALT26 S2004 2008-03-07
./icft26/version.txt: ICFT26 S2004 2007-06-03
```

1.2 TREATMENT OF FEDERAL TAX INFORMATION

Some components have Title-26 protected variables, which are kept as separate components for tracking and monitoring purposes, but are not documented separately. Such T26 components need to be requested separately, and as of the writing of this documentation, will trigger additional proposal review. Table 1.1 shows the nine components and their Federal Tax Information (FTI) counterparts, if present, as they are available in the RDC.

IDENTIFIERS 1.3

In general, linkages between the different files are created using deterministic match-merge techniques. Person, firm, and establishment identifiers allow users to link all LEHD Infrastructure files. Throughout, all Social Security Numbers (SSNs) have been replaced by Protected Identity Keys (PIKs) - no SSNs are available anywhere in this data. In addition to within LEHD identifiers such as the PIK, the ICF also contains additional person identifiers linking to Census survey data: (Current Population Survey (CPS), and Survey of Income and Program Participation (SIPP)). Note that these are generally the Census-internal identifiers and may not have a direct correspondence to the identifiers on the public-use files.

Firm identifiers are called State employer identification numbers (SEINs). The identifiers are constructed internally by LEHD, and generally, but not always, reflect an entity reporting unemployment insurance (UI) taxes to state authorities. "Establishments" (more precisely: reporting units) are identified by SEIN reporting unit (SEINUNIT). Establishments and firms are structured as one would expect with establishments listed hierarchically within each firm. Therefore to uniquely identify an establishment both the SEIN and SEINUNIT must be used. The firm and establishment identifiers are state and firm-structure-specific within the LEHD Infrastructure files, there is no straighforward method of linking units of a firm with multiple tax reporting entities (SEINs). Although the vast majority of firms have only one SEIN, a firm, depending on its structure may have multiple SEINs operating both within and across state boundaries. Although the federal Employer Identification Number (EIN) is available and can be used to link SEINs within and across states, the EIN suffers from similar problems as the SEIN. The identifier is not necessarily unique within a firm, is designed for tax reporting, and the structure of EINs within a firm is arbitrary. The Census Bureau recognizes the limitations of administrative identifiers and has addressed this problem on the Business Register (BR) and the LBD. The BRB files are used to link to the Business Register (BR), Longitudinal Business Database (LBD) and other Census economic data. Note that the BRB is in general a many-to-many link file. The BRB does permit assigning all SEINs and SEINUNITs to a common alpha (the overall firm identifier in the BR). However, exact identifier-based establishment-to-establishment matches between BR/LBD and LEHD data are generally not possible for establishments part of multi-establishment

For any further information, refer to the component-specific documentation.

AVAILABILITY OF DATA 1.4

Availability of LEHD Infrastructure files is conditional on (i) the data files having been processed in the LEHD QWI Production system, and subsequently integrated into the LEHD Infrastructure and (ii) permission for use in research having been granted by LEHD's state partner.

As of 2012-06-29, 47 states had been processed for the complete set of LEHD data files and integrated. The GAL is available for all 50 states plus the District of Columbia, but certain crosswalks do not exist if ES-202 records were not available for that state.

As for permissions, please contact your RDC administrator for the most up-to-date information.

In general, LEHD Infrastructure files are available from 2000 onwards. However, the availability of historical data prior to 2000 varies significantly across states. Table 1.2 tabulates the availability by component and state in the S2008 snapshot. This table should be cross-referenced with Table ?? when evaluating the feasibility of a project. A full list of files for each type of file is provided in each detailed section.

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Table 1.2: Data availability, by state and process

	<u>'</u>					Dat	Data set group					
		ect	ecft26	$_{ m ept}$	es202	gal	galt26	icf	icft26	qwi	$_{ m bds}$	u2w
Covered states		188	2	329	2,674	1,191	646	188	47	47	94	46
		(417.76)	(9.01)	(859.12)	(238.73)	(70.79)	(18.98)	(55.60)	(28.38)	(537.00)	(1.75)	(36.37)
Alaska	ak	4		2	36	20	14	4	П	1	2	1
		(0.68)		(2.86)	(0.35)	(0.14)	(0.05)	(0.20)	(0.11)	(0.95)	(0.00)	(0.00)
Alabama	al	4	•	7	32	19	14	4	1	1	2	1
		(3.64)		(5.94)	(1.54)	(1.06)	(0.33)	(0.64)	(0.34)	(5.35)	(0.01)	(0.45)
Arkansas	ar	4		-1	26	18	14	4	П	1	2	1
		(1.70)		(3.06)	(0.80)	(0.59)	(0.20)	(0.40)	(0.21)	(2.75)	(0.01)	(0.22)
Arizona	az	4		2	20	16	14	4	Η.		7	⊢ .
		(2.57)	d	(19.67)	(2.18)	(1.17)	(0.37)	(1.26)	(0.64)	(3.69)	(0.01)	(0.21)
California	ငအ	4	.7 ?		7.7	67.000	14	4	T	T (00, 10)	7 (T ?
	Č	(69.32)	(8.01)	(126.97)	(38.62)	(8.94)	(2.05)	(7.09)	(3.33)	(91.08)	(0.37)	(5.41)
Colorado	3	4		(10 00)	0)	00 (1 96)	14	4 (1.94)	1 (080)	(11.96.)	7 (T (0.00)
Delaware	þ	(9.24)		(16.22)	(00.c) 48	(00.1)	(0.04) 14	(1.34) 4	(0.00)	(11.00)	(0.04)	(0.00)
	3	(1 11)	•	(177)	(44 0)	(16 0)	(000)	(0.18)	(00 0)	(1 39)		(90 0)
Florida	Ф	(1.11)	•	(1.14)	(74.0)	(0.21)	(0.07)	(0.10)	(0.03)	(1.32)	(0.00)	(0.00)
	1	(30.40)	•	(63.30)	(19.26)	(5.12)	(1.33)	(3.81)	(1.91)	(38.73)	(0.15)	(3.10)
Georgia	g	, 4		\ <u>}</u>	, 44	22	14	4	·	1	. 2	-
))	(8.98)		(26.91)	(4.57)	(2.08)	(0.62)	(1.93)	(0.97)	(14.17)	(0.04)	(1.19)
Hawaii	hi	, 4		. 1-	53	25	14	, 4	, —	,	2	. —
		(1.56)		(2.56)	(0.78)	(0.30)	(0.00)	(0.22)	(0.12)	(2.37)	(0.00)	(0.12)
Iowa	ia	4		-1	92	30	14	4	-	1	2	1
	:	(5.53)		(5.88)	(3.67)	(0.81)	(0.23)	(0.52)	(0.28)	(5.32)	(0.01)	(0.41)
Idaho	pi	4	•	2	7.5	29	14	4	П . :		7.	П . ;
	:	(2.78)		(5.94)	(1.75)	(0.40)	(0.10)	(0.35)	(0.18)	(4.08)	(0.01)	(0.21)
Illinois	11	4		, 00 01	(10.00)	30	14	4 (T (10)	I	7 60	T 00 17
Indiana	٤.	(22.08)		(48.8U) 7	(12.98) 44	(3.38)	(0.84)	(2.71)	(1.37)	(28.92)	(60.03)	(1.62)
	1	(5.72)	•	(25.55)	(3.21)	(1.40)	(0.42)	(1.29)	(69.0)	(9.37)	(0.03)	(0.82)
Kansas	$_{\rm ks}$, 4		<u>'</u>	76	30	14	, 4		· T	, 2	·
		(5.13)		(12.12)	(3.23)	(0.76)	(0.20)	(0.77)	(0.39)	(6.82)	(0.02)	(0.41)
Kentucky	ky	4	٠	7	32	19	14	. 7		1	2	1
		(2.91)		(8.94)	(1.70)	(0.90)	(0.28)	(0.74)	(0.39)	(4.39)	(0.01)	(0.38)
Louisiana	la	4	•	-	92	30	14	4	⊢	1	2	-
-	-	(7.17)		(17.42)	(3.44)	(1.19)	(0.30)	(0.94)	(0.49)	(8.35)	(0.07)	(0.61)
Maryland	mq	4 (0.47)	•	7.	9).	30 (1.30)	14 (0.35)	(171)	I (0.73.)	I (13.97.)	2 (60 0)	I (0.83.)
				(2::02)	(21.0)	(20:1)	(00:0)	(****)	(0::0)	(12:01)	(20:0)	(cont)

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(cont)

(1.03)(0.10)(0.0)(0.20)(0.21)(1.60)(0.41)(0.03)(0.01)(0.02)(0.04)(0.03)(0.03)(0.00) (0.0)(0.01)(0.01)70.0(0.01)(0.03)90.0QW (10.75)(6.42)(2.13)(3.48)(24.74)(14.73)(3.01)(12.53)(1.34)(15.31(3.75)(4.64)(21.21)icft26 (0.50)(0.99)(0.83 (0.29)88.0) (0.45)(0.17)(0.21(1.84)(0.28)(1.20)(0.07) $_{\rm icf}$ (0.24)(0.13)(0.32)(0.40)(0.95)(1.30)(0.36)(0.22)(1.95)(1.66)(0.58)(3.64)(1.61)(0.53)(0.88 (2.26)(0.81)(1.41)Data set group (0.36)(0.08)(0.62)(0.00)(0.14)(0.59)(0.13)(1.29)(0.72)(0.25)(0.26)(0.80)(0.30)(0.21)Table 1.2 – Continued (0.17)(0.54)(0.40)(0.49)(5.13)(2.40)(0.78)(0.38)(0.59)(0.29)(2.12)(2.08)(1.02)2 (89.0)(1.29)(0.45)(4.49)(0.97)(1.78)(1.12)(15.90)(3.45)12.01) (2.10)(5.25)(5.69)(8.34)(8.57)(15.66)(3.28)(33.90)(3.39)(5.09)50.58(19.81)(6.07)(17.15)(5.62)ecft26 $_{
m ecf}$ (13.93)(0.91)(1.87)(13.63)(3.03)(2.27)(8.64)(4.32)(8.27)(2.07)(34.51)ms $_{\rm mt}$ $_{\rm nd}$ ne nv pa $_{\rm sq}$ North Carolina South Carolina North Dakota South Dakota Pennsylvania Rhode Island New Mexico New Jersey Mississippi Minnesota Oklahoma New York Montana Nebraska Michigan Missouri Nevada Oregon Maine

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u2w

(0.14)

(0.56)

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Table 1.2 – Continued

						Dat	Data set group					
		foe	ecft26	ehf	es202	gal	galt26	icf	icft26	qwi	$_{ m jds}$	u2w
		(1.05)		(2.43)	(0.56)	(0.20)	(0.04)	(0.17)	(0.09)	(1.61)	(0.00)	(0.08)
Tennessee	$^{\mathrm{tn}}$	4		2	44	22	14	4	1	1	2	1
		(5.51)		(12.62)	(2.59)	(1.36)	(0.40)	(1.09)	(0.59)	(8.09)	(0.03)	(0.64)
Texas	tx	4		7	92	30	14	4	1	1	2	
		(31.34)		(62.82)	(20.48)	(5.65)	(1.47)	(4.07)	(2.02)	(41.72)	(0.16)	(4.10)
Utah	nt	4		2	92	30	14	4	Π	- Π	2	
		(4.00)		(5.28)	(2.01)	(0.59)	(0.14)	(0.45)	(0.23)	(4.02)	(0.01)	(0.37)
Virginia	va	4		2	54	25	14	4	1		2	1
		(8.76)		(15.06)	(5.45)	(1.72)	(0.48)	(1.43)	(0.75)	_	(0.03)	(0.90)
Vermont	Λţ	4		2	36	20	14	4	1		2	П
		(0.75)		(1.08)	(0.32)	(0.17)	(0.06)	(0.12)	(0.06)	_	(0.00)	(0.04)
Washington	wa	4		_	92	30	14	4	1		2	
		(12.95)		(27.18)	(7.88)	(1.82)	(0.45)	(1.50)	(0.76)	(17.74)	(0.01)	(0.93)
Wisconsin	wi	4		7	92	30		4	1	1	2	1
		(9.44)		(21.08)	(5.83)	(1.52)		(1.02)	(0.56)	(14.74)	(0.04)	(1.03)
West Virginia	WV	4		2	92	30		4	1	1	2	1
		(3.03)		(3.35)	(2.02)	(0.42)	(0.11)	(0.29)	(0.16)	(3.14)	(0.01)	(0.21)
Wyoming	wy	4		2	32	19	14	4	1	1	2	1
		(0.63)		(2.31)	(0.31)	(0.13)	(0.05)	(0.19)	(0.10)	(0.95)	(0.00)	(0.04)

Number of files for each data set group and state. Aggregate size of all files in GB in parentheses.

LEHD-OVERVIEW-S2008 Revision: 432 Files not currently available may become available in the next update to the LEHD Infrastructure. Availability of core Infrastructure files is dependent on a state's participation in the Local Employment Dynamics (LED) program, and on permission having been given to make the files accessible in the RDC. The latest participant list can be found at the LEHD website at http://lehd.did.census.gov. The S2008 snapshot contains data on 47 states, not all of which are available to researchers.

1.5 PROCESSING FILES

LEHD Infrastructure files are significantly larger than even traditionally large research files such as the decennial census. In the current version, in all available states and years combined, information on 1,361,314,549 jobs is presented. There are 424,848,4602 quarterly observations on firms. Careful planning is required to ensure that adequate resources are available. To facilitate researchers in this endeavor, the research versions of the LEHD Infrastructure files in the RDC environment have additional random variables that allow for the selection of uniform random subsamples of firms (SEIN), establishments (SEINUNIT), and individuals (PIK). No such random variable is available on the EHF, since there is no single good strategy for selecting jobs. Tables in the documentation for individual components also contains information about the size on-disk of each file.

1.6 DISCLOSURE LIMITATION

Special disclosure and data use rules apply to analyses based on the micro-data from the LEHD Infrastructure file system. These data underlie the QWI, and research results are therefore subject to restrictions that insure the QWI disclosure limitation mechanism is not compromised. Disclosure limitation for the QWI uses noise infusion of the micro-data. The Disclosure Review Board (DRB) does not allow the release of any tabulations for sub-state geography that do not use the QWI noise infusion process. In addition, the required noise factors have not been placed on the RDC snapshot files as part of the DRB's normal rules limiting access to the specific parameters of its approved disclosure limitation methods. Only the DRB may approve the release of tabular output from the LEHD infrastructure file system. Sub-state geography tables will not be approved. National or multi-state tables may be approved provided they do not compromise the protection system. Model-based output is normally allowed. The chief disclosure officer for the RDC network will coordinate the reviews.

The underlying micro-data in the LEHD infrastructure file system were provided to the Census Bureau by states' Labor Market Information (LMI) offices under Memoranda of Understanding (also called Data Use Agreements) negotiated with each state. This process is part of the LED federal/state partnership, and places additional restrictions on the results that may be published. Current members of the LED partnership are shown on the LEHD main web page.

Publicly disclosing a single state's data, or any sub-state information such as Metropolitan Statistical Area (MSA) or Core-Based Statistical Area (CBSA), in identifiable form requires the permission of the state's LMI officer. When reporting results from studies that include multiple states, the results should be pooled across the states. State-specific controls can be included, but no coefficients therefrom reported. The identity of the LED member states is obviously not confidential. You may say which states were used in your analysis, and that you controlled for state-specific factors. The chief disclosure officer for the RDC network will review compliance with this requirement in consultation with the Assistant Division Chief for LEHD.

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Chapter 2. Business Register Bridge (BRB)

2.1 OVERVIEW

2.1.1 Definition of BRB

The Business Register Bridge (BRB) is a link file between LEHD employer microdata and Business Register (BR) firm and establishment microdata. Since the concepts of "firm" and "establishment" differ between the LEHD employer microdata and the BR, the Business Register Bridge (BRB) provides a crosswalk at various levels of business-unit aggregation. The most detailed crosswalk is at the level of Employer Identification Number (EIN) – State – 4-digit Standard Industry Classification (SIC) industry – county. The bridge includes the full list of establishments in the LEHD data and in the BR that are associated with the business units (e.g., EIN/4-digit SIC/State/County) in the crosswalk and measures of activity(e.g., employment, sales).

The LBD Bridge (LBDB) is a link file between LEHD employer microdata and Longitudinal Business Database (LBD) longitudinal firm and establishment microdata. It was added after the original BRB creation, and is documented separately within this chapter, in Section 2.2.2.

2.1.2 Update frequency

The BRB and LBDB are only updated occassionally.

2.1.3 Acquisition process

The Business Register Bridge (BRB) requires presence of Business Register (BR) (see the BR codebook, yearly acquisition) and the ECF (quarterly updates).

The LBD Bridge (LBDB) requires presence of Longitudinal Business Database (LBD) and the ECF (quarterly updates).

2.1.4 Processing description

Extracts of the Business Register (BR) and the ECF are built, properly aggregated, and output into a single file. A more detailed description is available in Section 2.2.1.

For the LBDB, the Longitudinal Business Database (LBD) and the ECF are combined, properly aggregated, and output into a single file. A more detailed description is available in Section 2.2.2.

2.1.5 Naming conventions

Three data files are produced and transferred. The data files from this process conform to LEHD naming conventions and are called

- brb_us_xwalk: the actual bridge, by year, at different levels of aggregation.
- brb_us_ecflist: list of SEINUNITs on the ECF, by quarter

• brb_us_brlist: list of EINs on the BR, by year

The LBDB files are named analogously, see Section 2.2.2.4.

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2.2 DETAILS

2.2.1Characterizing the Bridge Between LEHD Data and Census Business Data

2.2.1.1General Description

One of the many advantages of the LEHD database is the ability it offers to link information from Census Bureau business-level surveys (such as the Annual Survey of Manufacturers (ASM), or Business Expenditure Survey (BES)) to the set of workers employed by these units. The *LEHD Business Register Bridge (BRB)* provides researchers with the tool to make this linkage.

The LEHD data available through the RDCs is described in detail in other documents. In this document, we provide a description of the BRB itself as well as an overview of the business data that is available through this link.

The primary bridge between the LEHD data and the business data is the U.S. Census Bureau's annual Business Register (BR), a list of establishments the Bureau uses to develop the initial mailing list for the economic censuses and surveys. The BR contains data from several different sources. Primarily, however, the BR contains very reliable information on business identifiers, business organizational structure, and business location. All of this detail helps us to form links to the LEHD data.

Unfortunately, we are not able to directly form establishment-to-establishment linkages between LEHD data and the BR. The establishment identification system for the Business Register is the same as for all other Census Bureau business data products but different from the LEHD establishment identifier. Unfortunately, there is no one best way to form linkages between these data sources. There are many alternatives, and the optimal linking strategy depends on the research objective. To provide researchers with as much flexibility as possible, the BRB has been constructed as a crosswalk that allows for a number of different ways to integrate these data sources

2.2.1.2File Structure and Contents

Identifiers We use three types of identifying variables in the construction of the crosswalk file. These are: business identifier, geographic information, and industry code. Employer Identification Number (EIN) is a nine-digit taxpayer identification number assigned by the Internal Revenue Service (IRS). It is a unique identifier for single units but not for multi-units. Geographic information such as state or county is available. 1987 Standard Industry Classification (SIC) codes are available in 4-digit level

Unit of observation The unit of observation on the BRB file is a unique EIN-State-SIC4-County record. All unique combinations of these identifiers that are found on either the LEHD data, the BR, or both will appear on the crosswalk.

We will use the EIN with 15 different combinations of geographic and industry information as follows:

- EIN
- EIN/SIC1
- EIN/SIC2
- EIN/SIC3
- EIN/SIC4
- EIN/STATE
- EIN/STATE/SIC1
- EIN/STATE/SIC2

- EIN/STATE/SIC3
- EIN/STATE/SIC4
- EIN/STATE/COUNTY
- EIN/STATE/COUNTY/SIC1
- EIN/STATE/COUNTY/SIC2
- EIN/STATE/COUNTY/SIC3
- EIN/STATE/COUNTY/SIC4

Structure of output files For complete technical description, see Section 2.4.

Crosswalk file The crosswalk file contains the following variables

Alpha: Ten-digit enterprise identifier County: Three-digit county identifier

EIN: Nine-digit employer identifier

Flag_xxx: 15 one-digit match type flags. These flags represent the status of the match corresponding to each level of aggregation, one flag per unique id variable combination. Each flag takes on the value "M", "L", or "B". For example, flag_e_c_2 is the flag variable when we use EIN/County/SIC2 as linking unit and flag_e_s_4 is the flag when we use EIN/State/SIC4 as unit of matching.

M means that the business unit at this level of aggregation is matched.

L means that this business unit is observed only in the LEHD database.

B means that this business unit is observed only in the Business Register.

EIN/County/SIC4 is the most disaggregate level of aggregation we can use to match. So, it is obvious that if the flag value for the EIN State SIC4 County match is "M" then all 15 flags are "M".

SIC1: one-digit 1987 SIC

SIC2: two-digit 1987 SIC

SIC3: three-digit 1987 SIC

SIC4: four-digit 1987 SIC

State: Two-digit state abbreviation (e.g. md)

Stgeo: Two-digit State FIPS code (e.g. 24)

Year: Calendar year

List files List files link different business identifiers that are only observed in one database to one of the fifteen level of aggregation used in matching

Business Register Identifiers: Census File Number (CFN), Permanent Plant Number (PPN), Alpha, etc. are captured on brb_us_brlist.sas7bdat

LEHD Identifiers: SEIN, SEINUNIT, etc. are captured on brb_us_ecflist.sas7bdat. *IMPORTANT:* The ECF list file is a quarterly file, not a yearly file!

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2.2.1.3 How to Use The BRB

Some considerations Because there are many ways to use the BRB, finding the optimal way to use it for any given research project requires some researcher planning. The steps outlined here summarize the experience of the LEHD researcher staff in using this crosswalk for a variety of different research projects.

Before making use of the BRB, there are a number of questions a researcher must address, and the answer to these questions will determine how the BRB will be used. To illustrate this point, we take a research topic and cover, step by step, the decisions a researcher would face when identifying the best way to make use of the BRB to build an analytic dataset for the project.

Because there is not a common establishment ID variable on the Census and LEHD business files, the link between the files must be formed at a level of aggregation that is, for many multi-unit businesses, higher than an establishment. Both the set of link variables as well as the unit of observation for the analytic dataset must be selected by the researcher. Note that these need not be the same.

Choosing the Link Variables As noted, the BRB identifies all variables – state, county, and one-, two-, three-, and four-digit industry code – on which an EIN found among LEHD workforce traits and an EIN found on Census business data agree. In addition to EIN, any (or none) of these link variables may be chosen to merge together workforce traits and other business traits for analysis. When making this decision, observation counts in the resulting matched dataset as well as other factors should be considered. For example, if the analysis will focus on particular industries or regions, researchers may wish to require that linked business data agree on SIC or on state and county. In this case, any EIN the BRB indicates to be found on both files but not agreeing on state or industry would not be included in analysis. As we will discuss in the next section, it should be noted that the link variables do not necessarily determine the unit of observation for the analysis

Choosing the Base File and Unit of Observation There are three types of ways the LEHD data may be combined with Census business data to create research-ready datasets. These types are:

- 1. LEHD workforce traits (such as worker churning rates) at the establishment level (or higher) may be linked to more highly aggregated Census business traits (such as labor productivity). In this situation, the LEHD establishments form the "base file."
- 2. Establishment-level Census business traits (such as technology spending relative to a scaling measure) may be linked to more highly aggregated LEHD workforce traits. Here, Census data (such as the Annual Survey of Manufacturers) form the base file.
- 3. Traits aggregated on both sides may be combined using the crosswalk.

In short, researchers linking LEHD workforce traits to other Census business files may choose to aggregate LEHD traits, other business traits, or both. Note that by "aggregate," we mean that establishment-level data should be aggregated to the level of the link (EIN-county, 4-digit SIC, for example), or higher. The researcher must decide on which side (workforce traits or other business characteristics) it is important to preserve more detail.

Example Suppose we are interested in exploring how worker turnover impacts labor productivity for restaurants. There are two key decisions regarding identifier variables that must be made. Link traits as well as the unit of observation must be chosen. We hope to make it very clear that the two decisions need not be the same, and both will vary with the nature of the research question

A. Choosing the Link Level Because we are interested in restaurants only and because this is a two-digit industry trait, we will most likely want to use records from the BRB where flag_e_2 (at a minimum)='M'. Noting that county-level match rates are high and that a franchised restaurant in downtown Chicago may behave very differently from the same franchise in rural Illinois, we may also require that observations

entering our sample all agree on state and county as well and thus choose only to keep those BRB records where flag_e_c_2='M'

B. Choosing the Base File, Supplemental Files, and Unit of Observation From which data source - Census business data or LEHD data - would we like to preserve the most detailed data? Some researchers may in fact choose to sacrifice detail on both sides in favor of uniformity of variable construction. Regardless, because all variables that will characterize the unit of observation are available from other files, the BRB is not needed to obtain them. However, the unit of observation and the linkage unit are closely

For this example, our goal is to characterize variation in labor productivity across restaurants and to determine if those with more worker turnover are less productive. Thus, we will most likely select Census business data as our "base" data source and will link establishment detail on productivity and other business traits to more aggregated workforce traits (in this example, the LEHD workforce aggregated would be the "supplemental" file). Note that this linking assumes that worker churning is similar for all restaurants in the same EIN state and county

Summary of How to Use This File:

Make an extract from the BRB sub-setting on all records for each state and year that have a value of "M" for the match flag corresponding to these match variables. The variables to keep include all ID variables needed to make the match. For example, if we sub-set on flag_e_c_2='M', the match variables we keep from the BRB will be:

- EIN
- State
- SIC2
- County
- Year

CAUTION: One should make sure to sort the crosswalk to get unique observation per linking unit when using linking units less detailed than EIN/County/SIC4.

Step 2 Some Base and supplemental files have all the necessary variables such as EIN, State, SIC2, County, and Year. For example, the ASM and Census of Manufactures (CM) have these link variables as well as establishment identifiers such as CFN and PPN. In this case we can match the extract from the BRB with the base file or supplement file (after some aggregation). However, some files do have their own identifiers but not all link variables. In this case, we have to get additional variables from the list files we provide before matching the extract from the BRB with the files of interest. For example, some files have only CFN and year but not EIN. Thus, we must first obtain the CFN from BR list file before matching.

Step 3 Select a base file (Census business data or LEHD business data), a supplemental file, and a unit of observation for the final analytic dataset. The base file should be the file from which we could like to preserve the most detail (if aggregation level differences within the same observation are desired).

Step 4 From the base file, pull off all observations (matching by the link variables selecting in Step 2) that match to the BRB extract. If allowing for more detailed data from the base file, the dataset resulting from this step will have more observations than the BRB extract.

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Step 5 If the LEHD data has been selected as the base file in Step 3, some collection of Census business data files will be used to construct the supplemental file. The most dis-aggregated level of detail that may be maintained on the supplemental file is defined by the link variables (EIN, state, one-digit SIC, county and year in this example). If the business data variables of interest are reported on the files at this level of aggregation or smaller (typically this will be at an establishment level), then the business data must be aggregated to the level defined by the link variables. Note that some business files contain records reported at higher levels of aggregation. In these cases, no additional aggregation is needed in the construction of the supplemental file. CAUTION: When adding variables at a higher level of aggregation, it is often preferred to use ratios of variables from the same dataset rather than levels of one variable only. For example, rather than using aggregated sales, it is often preferable to weight sales at each establishment by some fraction (where the fractions for each establishment sum to one) before aggregating across establishments.

Step 6 Link the supplemental file to the joined base file and BRB extract. Use the same variables used to define the level of aggregation of the supplemental file.

Step 7 The construction of the analytic dataset is now complete. Note, however, that not all records in the dataset need be constructed at the same level of aggregation.

2.2.1.4 Some warnings and caveats

Active establishments In the construction of the crosswalk, duplicates and non-active establishments are deleted (not included) based on Census activity flags from the BR. Invalid, missing, illegible, or out-of-scope industry code, invalid geography, or even zero payroll are *not* grounds for exclusion from the BRB. In particular, invalid codes can and do appear on the BR, and are carried through unchanged.

Discrepancies in geo and industry codes There may be discrepancies between the BR and ES-202 based data for a variety of reasons. Processing issues imply that geo and industry codes may be missing or out of bounds on BR, especially for entrants. It is an open question whether the ES-202 might get information on industry and geo faster than the BR. Note that there is some evidence that suggests that this is the case: Census currently receives a list of industry codes from Bureau of Labor Statistics (BLS) (from its ES-202 processing) for new EINs. Census has typically found these industry codes to be more reliable than either the PBA (principal business activity from income tax forms for businesses) codes they receive from IRS or the industry codes from Social Security Administration (SSA) extracted from the SS-4 form (the form used to apply for an EIN).

In terms of preference, the preference ordering that Census typically uses for industry codes is:

- 1. Direct Census collection in economic censuses or annual surveys (for most businesses this means only once every five years).
- 2. BLS codes
- 3. SSA codes
- 4. IRS codes

2.2.2 Extension of BRB methodology to 1997-2004 NAICS linkage using the LBD

Original date: May 16, 2009 Author: Kristin McCue

(The full version of this document is available on the RDC.)

This section briefly documents application of the BRB methodology to construct a NAICS-based bridge between the ECF and the LBD for the years 1997-2004. The LBD is a longitudinally linked version of BR list of all establishments with paid employees. The main reason for constructing the new bridge was to allow matching of business data for years 2002-2004. The bridge for recent years has to differ somewhat from the original because of the transition from SIC to NAICS industry coding and because the BR underwent a redesign in 2002. To allow researchers some leeway in which industry coding they use and to enable comparison of results based on the two bridges, the NAICS/LBD bridge spans 1997-2004. To distinguish it from the original BRB, we have dubbed this the LBDB.

The LBDB was last computed on the S2004 snapshot, and has not yet been updated for the S2008.

2.2.2.1Methods

The new bridge was constructed starting from the code use to create the BRB, which I then modified to deal with differences between the BR and the LBD and the change in industry coding. One difference between the BR and the LBD is that the LBD eliminates the large number of payroll-inactive records that are present in the BR files. These are generally establishments that have gone out of business but which are not immediately purged from the BR. This absence of inactive records is the most substantial difference between the BRB and the LBDB. In the 1997-2001 part of the BRB, 8-10\% of inactive BR establishments match to the ECF at least at the EIN/state/county level, so excluding inactives resulted in dropping about 300,000-400,000 matches. It is more relevant to know how many of those establishments show up in business censuses or surveys (and whether they match to LEHD records that are active), but I have not looked at those issues vet.

The second change is the switch from matching based on 4-digit SIC codes to matching based on 6-digit NAICS codes. In the current crosswalk, I've included matches based on 6, 4, 2, and 1-digit NAICS. I skipped over 5 and 3-digit NAICS matches simply to speed up creation of the crosswalk, but they could easily be added. We have NAICS codes of two vintages (1997 and 2002) so all matches that use industry codes were carried out twice: ECF 1997 NAICS codes matched to LBD 1997 NAICS codes, and then ECF 2002 NAICS codes matched to LBD 2002 NAICS codes. Most BR establishments were assigned 1997 NAICS codes during the 1997 economic census and many surveys switched to using NAICS at that time, but because the old BR database had run out of space, NAICS codes were not carried on the register until the redesign in 2002. So one additional step in constructing the new bridge was collecting NAICS codes for LBD establishments. For 1997 NAICS codes, I used economic census codes for 1997, and then used the LBD field NAICS for 1998-2004 where available. Where the field NAICS was blank, I used the LBD BESTNAICS field instead. Shawn Klimek and Teresa Fort have been working on putting together 2002 NAICS codes to add to the LBD. I used their working version of these codes as of November 2008 as the source for 2002 NAICS codes for the current LBDB.

2.2.2.2Match rates

The following gives some match statistics on the two lists of business units that were matched to each other. The actual tables are confidential and can be accessed in the RDC. To make the figures roughly comparable over time and across sources, the statistics are based on the 21 states for which the S2004 snapshot has ECF data for 1997-2004. At least for this particular set of states, the ECF has roughly 15\% more establishments than the LBD (except in 2004 when most states have fewer than four quarters of data available in the ECF). The LBD has a higher share of multi-units, but that at least in part reflects that firm identifiers on the ECF are state specific. If a multi-unit operates a single establishment in a state, that establishment is identified here as a single-unit on the ECF but as a multi-unit on the LBD. Note that, for 1997-2001, there are a substantial number of LBD establishments that do not have NAICS codes, which puts an upper bound on the share of establishments that can be matched using industry.

Comparing match rates for payroll-active establishments on the BR based on the original BRB crosswalk for the years of overlap with the LBDB (1997-2001), the overall BRB match rates are higher than those for the LBDB when the same number of digits in the industry code are used. This largely reflects missing

LEHD-OVERVIEW-S2008 Page 2-8 Revision: 432 NAICS codes in the LBDB; only 2-3% of the payroll-active establishments on the BR have missing SIC codes. Conditional on having an industry code, the 6-digit NAICS match rates are lower than the BRB 4-digit SIC match rates, but this likely reflects the greater detail provided by NAICS. Comparing rates using the same number of digits in the industry code, the NAICS rates tend to be a bit higher, though it is not clear that is exactly the right comparison either. While the 2002 and 1997 codes appear to give different match rates, this is mostly driven by differences in the number of missing codes. Among cases with non-missing codes, the shares that match for a particular level of industry detail are generally pretty close. The set of payroll-active establishments on the BR is close to, but not exactly the same as the set of establishments on the LBD.

The set of establishments on the ECF have a somewhat lower probability of matching to the LBD than LBD establishments have of matching to the ECF. For most years, the gap averages about 10 percentage points. Differences in coverage of the two business lists appears to be the most likely explanation for differing match rates. For example, if the ECF covers some industries that the LBD generally does not, such as private households, that would lead to a lower match rate for ECF establishments. Employment-weighted rates are consistently higher than the unweighted rates, reflecting higher match rates for larger establishments. This is also the case for matches based on the BRB and for ECF matches to the LBD. The differences between match rates for LBD and ECF establishments are smaller when weighted by employment, suggesting that differences in coverage disproportionately involves small establishments.

Examining LBD match rates by NAICS categories that are slightly more aggregated than 2-digit codes, agriculture has by far the lowest overall match rates among these industry groups. State UI programs vary in the extent to which they cover agricultural workers, so coverage of agriculture in the ECF in general is incomplete. Employment weighted match rates are roughly twice as high as establishment match rates for agriculture, reflecting higher match rates for larger agricultural establishments. The other industry outlier is management of companies, which has very low match rates when industry detail is used in the match, but much more reasonable rates when only geography is used. This may reflect differences in how the LBD and ECF handle industry codes for auxiliary establishments rather than differences in coverage.

Other services (NAICS2=81) is broken up into private households (814) and everything else in other services because coverage of private household appears to differ significantly between the LBD and ECF. Only 1% of ECF business units providing services to private households match to the LBD using the private household industry code (814). The other sector with quite low ECF match rates is public administration. Note that for public administration the match rate in the last column (i.e. not using industry codes) jumps up substantially (to 70%) if we do not require county codes to match. So part of the low match rate here likely reflects that while the Business Register includes some state and local government records, these records are not generally maintained at the establishment level and so detailed geography may differ across the LBD and ECF.

Match rates are a bit higher for establishments belonging to multi-units when county is not included as one of the match criteria. Using county, match rates are quite similar for single-units and multi-units, particularly if match rates are adjusted to reflect more missing industry codes among the single-units. Dropping the requirement that a match be found in the same county has modest effects on single-unit match rates, but a quite large effect on multi-unit match rates. This suggests that there is more disagreement on the location of multi-unit activity between the two lists than there is for single unit activity. Single units have higher match rates only when county is used and industry is not.

A multi-unit might have a single establishment on the LBD with a particular combination of EIN/state/county/6-digit industry code, while having other establishments with the same EIN/state/county and the same first two digits of the industry code, but with different values for the last 4 digits of the industry code. In that case, matching on EIN/state/county/2-digit industry would group all such establishments into the same cell. If each of the LBD establishments had an EIN/state/county/6-digit industry match on the ECF, switching to 2-digit industry would collapse all of these matches into one cell. This might lead us to expect average matched cell size to increase as we use less industry detail in the match criteria. Surprisingly, the average number of establishments in a matched cell is little affected by the amount of industry detail used, and in some cases actually falls with less detail. This happens because the number of establishments matched rises, and most of the additional matches involve cells with a single establishment in them. This largely offsets the increase in aggregation among multi-unit establishments that are matched when more detail is used.

Statistics show very similar levels of aggregation and patterns based on match criteria for the BRB/SIC matches and for ECF matches.

The difference between average numbers of establishments in the EIN/state/county and EIN/state panels shows that dropping geographic detail has a much bigger effect on the amount of aggregation than changing the amount of industry detail. The average number of establishments in a cell generally increases by a modest .1 when county is dropped, but this is a combination of essentially zero effect on single units and a real increase in aggregation for multi-units. Single units by definition have only one establishment, so varying the match criteria affects only whether or not they match. Among matched multi-units, the average number of establishments in a matched cell increases from around 2 to more like 3.5 when county is dropped from the match criteria. The 95th percentile of the cell size distribution for LBD multi-unit matches is roughly 5 establishments for EIN/state/count matches, no matter what level of industry detail is used. For EIN/state matches, the 95th percentile is roughly 10 establishments—again, with little or no pattern associated with the level of industry detail used. Thus for single-units, dropping geographic detail is helpful in finding additional matches while having no effect on aggregation. For multi-units, dropping geographic detail has a sizable effect on the amount of aggregation, while dropping industry detail has little effect.

Differences between the ECF and LBD in industry coverage contribute to differences in match rates among states. For example, low LBD establishment match rates for agriculture help explain why non-urban midwestern states have relatively low establishment match rates. Dropping agricultural establishments increases establishment match rates by 5 or more percentage points for some of those states. Because agricultural establishments are on average quite small, whether or not they are included has almost no effect on employment weighted match rates. The lack of coverage of private household establishments in the LBD helps account for relatively low ECF establishment match rates for a couple of states: if I exclude private household industry codes in doing the calculations it raises ECF SEINUNIT match rates in most states by a percent or two, but raises rates in the most affected states by about 12 percentage points when using 4-digit industry and 17 percentage points when not using industry in the match. For employment-weighted match rates this coverage issue is unimportant because private household SEINUNITs are, unsurprisingly, very small on average.

2.2.2.3 Using the LBD Bridge files

The discussion of how to use the BR Bridge files to link LEHD and Census business data applies to the LBD Bridge as well. The main practical difference for the LBDB is that the ECF and LBD lists have both 2002 and 1997 NAICS codes on them, and the cross-walk file allows the user to use either set of codes to do the linkage. On the two business lists, the NAICS codes appear as separate fields: NAICS02 and NAICS97, where 02 and 97 refer to the vintage of the coding scheme. While the two sets of codes differ substantially for some sectors (e.g. wholesale and construction), for many detailed industries they are unchanged. The crosswalk file was first created with a record for each unique combination of EIN/state/county/NAICS97 and each unique combination of EIN/state/county/NAICS02, with flags for each record indicating whether that combination appeared on the ECF list or the LBD list or both (i.e. had a match). The variable naics_vintage was set to '1997' if the record was created from NAICS97 and to '2002' if created from NAICS02. Where two records with a particular combination of EIN/state/county had identical NAICS02 and NAICS97 codes, and also had identical values for all 15 match flags, one of the records was dropped and naics_vintage was reset to 'BOTH' for the record that was kept. This was done simply to reduce the size of the overall file. To use 1997 NAICS codes to link business units on the two lists, the user should start with all records from the crosswalk that have *naics_vintage* equal to either '1997' or 'BOTH', because those are the records derived using the 1997 codes. Similarly, to match using 2002 codes, use records with naics_vintage equal to either '2002' or 'BOTH'.

Contents of LBD Bridge (LBDB) files 2.2.2.4

Page 2-10 LEHD-OVERVIEW-S2008 Revision: 432 Table 2.1: File LBDB US LBDLIST

N	Т		tole 2.1: File LBDB_US_LBDLIST
Name	Type	Length	Label
alpha	2	10	Firm identifier (not BR alpha—corresponds to firmid on CES
			files)
cfn	2	10	CFN if $yr < 2002$, SURVUID if $yr > = 2002$ (as on LBD)
county	2	3	County FIPS codes
ein	2	9	
flag_lbd_pyfix	2	1	=F if LBD prior yr fix (1st BR rec in yr+1, but in LBD in curryr
			b/c prior pay/empl>0 in yr+1)
flagb	2	9	Birth—Death—Continuer Link Flag
lbdnum	2	12	Longitudinal estab identifier (from LBD)
mu	1	8	Single—Multi Identifier
naics02	2	6	2002 NAICS code from Klimek/Fort assignment of codes to estabs
			on LBD
naics97	2	6	1997 NAICS code from EC (1997), LBD bestnaics (1998–2001), or
			LBD naics var
$naics02_src$	2	4	Stands in for Klimek/Fort source code——see format src_cd for
			translation to their codes
recnum	1	8	SSEL record number (matches to SSEL file for current year)
state	2	2	State 2 character postal abbrev (lower case)
stgeo	2	2	State FIPS code
year	1	8	Year

Table 2.2: File LBDB_US_ECFLIST

Name	Type	Length	Label
best_emp3	1	4	Best UI/202 Employment Month 3
county	2	3	Cleaned ES202 FIPS County CCC
ein	2	9	Cleaned EIN
$multi_unit$	1	3	SEIN $w/2+$ records on 202
naics02	2	6	Cleaned 1997 NAICS Code NNNNNN
naics97	2	6	Cleaned 1997 NAICS Code NNNNNN
quarter	1	3	Quarter (numeric)
sein	2	12	State Employer ID Number
seinunit	2	5	State UI Reporting Unit Number
state	2	2	State 2 character postal abbrev (lower case)
stgeo	2	2	ES202 FIPS State SS
year	1	3	Year YYYY

Table 2.3: File LBDB US XWALK

Name	Type	Length	: File LBDB_US_XWALK Label
county	2	3	County FIPS codes
ein	2	9	Cleaned EIN
flag_e	2	1	Match flag EIN level
flag_e_n1	2	1	Match flag EIN/NAICS 1 digit level
$flag_e_n2$	2	1	Match flag EIN/NAICS 2 digit level
$flag_e_n4$	2	1	Match flag EIN/NAICS 4 digit level
$flag_e_n6$	2	1	Match flag EIN/NAICS 6 digit level
$flag_es$	2	1	Match flag EIN/STATE level
$flag_e_s_c$	2	1	Match flag EIN/STATE/COUNTY level
$flag_e_s_c_n1$	2	1	Match flag EIN/STATE/COUNTY/NAICS 1 digit level
$flag_e_s_c_n2$	2	1	Match flag EIN/STATE/COUNTY/NAICS 2 digit level
$flag_e_s_c_n4$	2	1	Match flag EIN/STATE/COUNTY/NAICS 4 digit level
$flag_e_s_c_n6$	2	1	Match flag EIN/STATE/COUNTY/NAICS 6 digit level
$flag_e_s_n1$	2	1	Match flag EIN/STATE/NAICS 1 digit level
$flag_e_s_n2$	2	1	Match flag EIN/STATE/NAICS 2 digit level
$flag_es_n4$	2	1	Match flag EIN/STATE/NAICS 4 digit level
$flag_e_s_n6$	2	1	Match flag EIN/STATE/NAICS 6 digit level
naics1	2	1	First 1 digits of naics6
naics2	2	2	First 2 digits of naics6
naics4	2	4	First 4 digits of naics6
naics6	2	6	6 digit NAICS code
$naics_vintage$	2	4	=2002, 1997, or BOTH
state	2	2	State 2 character postal abbrev (lower case)
year	1	8	Year

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2.3 DATA SET DESCRIPTIONS

2.3.1 Naming scheme

There are three files in the BRB group:

brb_us_brlist.sas7bdat
brb_us_ecflist.sas7bdat
brb_us_xwalk.sas7bdat

us indicates that these are files of national scope. All BRB files are considered FTI.

2.3.2 Data location

The files are stored in a directory underneath the general LEHD directory structure:

brb/us/

On the RDC network, the directory can be found under

/mixed/lehd/current

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$\overline{2.3.3}$ Main file: Crosswalk, brb_us_xwalk

Record identifier: year EIN state county sic4???

Sort order: year ein state county sic4

File indexes: none

Entity Link record (many-to-many)

Unique Entity Key year EIN state county sic4

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Cleaned EIN	EIN	00026	9	A/N
Cleaned ES202 FIPS County CCC	COUNTY	00035	3	A/N
Cleaned SIC Code IIII	SIC4	00020	4	A/N
ES202 FIPS State SS	STGEO	00024	2	A/N
Enterprise identifier	ALPHA	00008	10	A/N
Match flag EIN level	$FLAG_E$	00058	1	A/N
Match flag EIN/SIC1 level	$FLAG_E_1$	00057	1	A/N
Match flag EIN/SIC2 level	$FLAG_E_2$	00056	1	A/N
Match flag EIN/SIC3 level	$FLAG_E_3$	00055	1	A/N
Match flag EIN/SIC4 level	$FLAG_E_4$	00054	1	A/N
Match flag EIN/STATE level	$FLAG_E_S$	00053	1	A/N
Match flag EIN/STATE/COUNTY level	$FLAG_E_S_C$	00048	1	A/N
Match flag EIN/STATE/COUNTY/SIC1	$FLAG_E_S_C_1$	00047	1	A/N
Match flag EIN/STATE/COUNTY/SIC2	$\rm FLAG_E_S_C_2$	00046	1	A/N
Match flag EIN/STATE/COUNTY/SIC3	$FLAG_E_S_C_3$	00045	1	A/N
Match flag EIN/STATE/COUNTY/SIC4	$FLAG_E_S_C_4$	00044	1	A/N
Match flag EIN/STATE/SIC1 level	$FLAG_E_S_1$	00052	1	A/N
Match flag EIN/STATE/SIC2 level	$FLAG_E_S_2$	00051	1	A/N
Match flag EIN/STATE/SIC3 level	$FLAG_E_S_3$	00050	1	A/N
Match flag EIN/STATE/SIC4 level	$FLAG_E_S_4$	00049	1	A/N
One-digit SIC code	SIC1	00043	1	A/N
State FIPS code	STATE	00018	2	A/N
Three-digit SIC Code	SIC3	00038	3	A/N
Two-digit SIC code	SIC2	00041	2	A/N
Year YYYY	YEAR	00000	8	N

Business Register list: brb_us_brlist

Record identifier: year ein state county sic4 cfn

Sort order: year ein state county sic4 cfn

File indexes: none

Entity Establishment (Census File Number)

Unique Entity Key cfn

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CHAPTER 2. BUSINESS REGISTER BRIDGE (BRB)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Census File Number	CFN	00008	10	A/N
Employer Identification Number	EIN	00036	9	A/N
Enterprise identifier	ALPHA	00018	10	A/N
FIPS State SS	STATE	00028	2	A/N
FIPS State xx	STGEO	00034	2	A/N
FIPS county xxx	COUNTY	00055	3	A/N
Four-digit 1987 SIC	SIC4	00030	4	A/N
Permanent Plant Number	PPN	00045	10	A/N
Year YYYY	YEAR	00000	8	N

2.3.5ECF list: brb_us_ecflist

Record identifier: sein seinunit year quarter

Sort order: year ein state county sic4 sein seinunit quarter

File indexes: none

Entity Reporting unit (State Employment Security Agency (SESA))

Unique Entity Key sein seinunit year quarter

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Cleaned EIN	EIN	00026	9	A/N
Cleaned ES202 FIPS County CCC	COUNTY	00023	3	A/N
Cleaned SIC Code IIII	SIC4	00019	4	A/N
ES202 FIPS State SS	STGEO	00017	2	A/N
FIPS State SS	STATE	00035	2	A/N
Quarter QQ	QUARTER	00040	3	N
State Employer ID Number	SEIN	00000	12	A/N
State UI Reporting Unit Number	SEINUNIT	00012	5	A/N
Year YYYY	YEAR	00037	3	N

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2.4 DATA DICTIONARY

2.4.1 Crosswalk

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Cleaned EIN	EIN	00026	9	A/N

CHARACTERISTICS

Units Identifier read-in

Algorithm

BR and ECF, if available Sourcefile

ALTERNATE DOCUMENTATION n.a.

VALUE TABLE

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CHAPTER 2. BUSINESS REGISTER BRIDGE (BRB)

Field name	Data dictionary reference name	Starting position	Field size	Data type
Cleaned ES202 FIPS County CCC	COUNTY	00035	3	A/N

${\it CHARACTERISTICS}$

Units

Geography

Algorithm

 ${\it read-in}$

Sourcefile

 ECF/BR

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

.

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CHAPTER 2. BUSINESS REGISTER BRIDGE (BRB)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Cleaned SIC Code IIII	SIC4	00020	4	A/N

${\it CHARACTERISTICS}$

Units Industry

Algorithm Sourcefile

read-in ECF/BR

ALTERNATE DOCUMENTATION

n.a.

 ${\tt VALUE\ TABLE}$

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CHAPTER 2. BUSINESS REGISTER BRIDGE (BRB)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
ES202 FIPS State SS	STGEO	00024	2	A/N

${\it CHARACTERISTICS}$

Units

Geography

Algorithm

read-in

SOURCEFILE ALTERNATE DOCUMENTATION

BR n.a.

VALUE TABLE

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Field name	Data dictionary reference name	Starting position	Field size	Data type
Enterprise identifier	ALPHA	00008	10	A/N

${\it CHARACTERISTICS}$

Units

Identifier

Algorithm

read-in

Sourcefile ALTERNATE DOCUMENTATION

BRn.a.

 ${\tt VALUE\ TABLE}$

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN level	FLAG_E	00058	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm

computed see 04_brb.sas

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SOURCEFILE ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN level

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/SIC1 level	FLAG_E_1	00057	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm Sourcefile

computed see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/SIC1 level

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Field name	Data dictionary	Starting	Field	Data
Tield Hame	reference name	position	size	type
Match flag EIN/SIC2 level	FLAG_E_2	00056	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm

computed see 04_brb.sas

 $Page \ 2\text{-}23$

SOURCEFILE ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/SIC2 level

LEHD-OVERVIEW-S2008

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/SIC3 level	FLAG_E_3	00055	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm Sourcefile

computed see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/SIC3 level

Page 2-24 $LEHD ext{-}OVERVIEW ext{-}S2008$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/SIC4 level	FLAG_E_4	00054	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm Sourcefile

computed see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/SIC4 level

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/STATE level	FLAG_E_S	00053	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm Sourcefile

computed see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE level

 $Page\ 2-26$ $LEHD ext{-}OVERVIEW ext{-}S2008$ Revision: 432

Field name	Data dictionary reference name	Starting position	Field size	Data type
Match flag EIN/STATE/COUNTY level	FLAG_E_S_C	00048	1	A/N

CHARACTERISTICS

Units

Flag

Algorithm

computed

Sourcefile

see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

 $\mathcal{M}\textsc{:}$ matched in EIN/STATE/COUNTY level

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match	FLAG_E_S_C_1	00047	1	A/N
EIN/STATE/COUNTY/SIC1				

CHARACTERISTICS

Units Flag

Algorithm

computedsee 04_brb.sas

Sourcefile ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/COUNTY/SIC1 level

 $Page\ 2-28$ $LEHD ext{-}OVERVIEW ext{-}S2008$ Revision: 432

Field name		Data dictionary	Starting	Field	Data
		reference name	position	size	type
Match	flag	FLAG_E_S_C_2	00046	1	A/N
EIN/STATE/COUNTY/SIC2					

CHARACTERISTICS

Units

Flag

Algorithm

computed

Sourcefile

see 04_brb.sas

ALTERNATE DOCUMENTATION n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/COUNTY/SIC2 level

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match	FLAG_E_S_C_3	00045	1	A/N
EIN/STATE/COUNTY/SIC3				

CHARACTERISTICS

Units

Flag

Algorithm

computedsee 04_brb.sas

Sourcefile ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/COUNTY/SIC3 level

 $Page\ 2-30$ $LEHD ext{-}OVERVIEW ext{-}S2008$

Field name		Data dictionary	Starting	Field	Data
		reference name	position	size	type
Match	flag	FLAG_E_S_C_4	00044	1	A/N
EIN/STATE/COUNTY/SIC4					

CHARACTERISTICS

Units

Flag

Algorithm

 $\begin{array}{c} computed \\ see \ 04_brb.sas \end{array}$

Sourcefile Alternate documentation

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/COUNTY/SIC4 level

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/STATE/SIC1 level	FLAG_E_S_1	00052	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm Sourcefile

computed see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/SIC1 level

 $Page\ 2-32$ $LEHD ext{-}OVERVIEW ext{-}S2008$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/STATE/SIC2 level	FLAG_E_S_2	00051	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm

computed see 04_brb.sas

SOURCEFILE ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/SIC2 level

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/STATE/SIC3 level	FLAG_E_S_3	00050	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

Algorithm

computed see 04_brb.sas

SOURCEFILE ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/SIC3 level

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Match flag EIN/STATE/SIC4 level	FLAG_E_S_4	00049	1	A/N

${\it CHARACTERISTICS}$

Units

Flag

ALGORITHM SOURCEFILE

computed see 04_brb.sas

ALTERNATE DOCUMENTATION

n.a.

VALUE TABLE

B: only in BR L: only in LEHD

M: matched in EIN/STATE/SIC4 level

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
One-digit SIC code	SIC1	00043	1	A/N

${\it CHARACTERISTICS}$

Units Industry

Algorithm derived

Sourcefile sic1=substr(sic4,1,1)

Alternate documentation n.a.

 ${\tt VALUE\ TABLE}$

.

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
State FIPS code	STATE	00018	2	A/N

${\it CHARACTERISTICS}$

Units

Geography

Algorithm

read-in

Sourcefile

ALTERNATE DOCUMENTATION

ECF n.a.

VALUE TABLE

.

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Three-digit SIC Code	SIC3	00038	3	A/N

${\it CHARACTERISTICS}$

Units Industry

Algorithm

derived

Sourcefile

sic3 = substr(sic4,1,3)

ALTERNATE DOCUMENTATION

n.a.

 ${\tt VALUE\ TABLE}$

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Two-digit SIC code	SIC2	00041	2	A/N

${\it CHARACTERISTICS}$

Units In

Algorithm

Industry derived

Sourcefile

sic2 = substr(sic4,1,2)

ALTERNATE DOCUMENTATION

n.a.

 ${\tt VALUE\ TABLE}$

.

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Year YYYY	YEAR	00000	8	N

${\it CHARACTERISTICS}$

UNITS Calendar
ALGORITHM read-in

SOURCEFILE ECF and BR

ALTERNATE DOCUMENTATION n.a.

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2.4.2 BR list

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Census File Number	CFN	00008	10	A/N

CHARACTERISTICS

Units Identifier

Algorithm read-in Sourcefile BR

ALTERNATE DOCUMENTATION n.a.

Field name	Data dictionary reference name	Starting	Field size	Data type
Employer Identification Number	EIN	00036	9	A/N

${\it CHARACTERISTICS}$

Units Identifier

ALGORITHM read-in SOURCEFILE BR

 $\begin{array}{ccc} Sourcefile & BR \\ Alternate \ documentation & n.a. \end{array}$

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Enterprise identifier	ALPHA	00018	10	A/N

CHARACTERISTICS

Units Identifier

Algorithm read-in

Sourcefile BR

ALTERNATE DOCUMENTATION n.a.

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
FIPS State SS	STATE	00028	2	A/N

${\it CHARACTERISTICS}$

Units Geography

ALGORITHM state=lowcase(fipstate(stgeo))

Sourcefile derived

ALTERNATE DOCUMENTATION n.a.

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
FIPS State xx	STGEO	00034	2	A/N

${\it CHARACTERISTICS}$

Units Geography

Algorithm

read-in BR

SOURCEFILE ALTERNATE DOCUMENTATION

n.a.

 $LEHD ext{-}OVERVIEW ext{-}S2008$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
FIPS county xxx	COUNTY	00055	3	A/N

${\it CHARACTERISTICS}$

Units Geography

ALGORITHM read SOURCEFILE BR

read-in

ALTERNATE DOCUMENTATION

n.a.

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Four-digit 1987 SIC	SIC4	00030	4	A/N

${\it CHARACTERISTICS}$

Units Industry

ALGORITHM read-in SOURCEFILE BR

ALTERNATE DOCUMENTATION n.a.

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Field name	Data dictionary reference name	Starting position	Field size	Data type
Permanent Plant Number	PPN	00045	10	A/N

${\it CHARACTERISTICS}$

Units Identifier

Algorithm read-in

Sourcefile BR

ALTERNATE DOCUMENTATION n.a.

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Year YYYY	YEAR	00000	8	N

CHARACTERISTICS

Units Calendar

Algorithm read-in

 $\begin{array}{ccc} Sourcefile & BR \\ Alternate \ documentation & n.a. \end{array}$

 $LEHD ext{-}OVERVIEW ext{-}S2008$

2.4.3 ECF list

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Cleaned EIN	EIN	00026	9	A/N

CHARACTERISTICS

UNITS Identifier
ALGORITHM read-in

Sourcefile ECF (availability differs across states)

ALTERNATE DOCUMENTATION ECF documentation

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Field name	Data dictionary	Starting position	Field	Data
Cleaned ES202 FIPS County CCC	reference name COUNTY	00023	size 3	A/N

${\it CHARACTERISTICS}$

Units Geography

read-in Algorithm ECF Sourcefile

ECF documentation ALTERNATE DOCUMENTATION

 $LEHD ext{-}OVERVIEW ext{-}S2008$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Cleaned SIC Code IIII	SIC4	00019	4	A/N

${\it CHARACTERISTICS}$

Units Industry

ALGORITHM read-in SOURCEFILE ECF

ALTERNATE DOCUMENTATION ECF documentation

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
ES202 FIPS State SS	STGEO	00017	2	A/N

${\it CHARACTERISTICS}$

Units Geography

Algorithm rename es_state=stgeo

Sourcefile ECF

ALTERNATE DOCUMENTATION ECF documentation

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
FIPS State SS	STATE	00035	2	A/N

${\it CHARACTERISTICS}$

Units Geography

ALGORITHM state=lowcase(fipstate(stgeo))

Sourcefile derived

ALTERNATE DOCUMENTATION n.a.

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Quarter QQ	QUARTER	00040	3	N

CHARACTERISTICS

Units Calendar

Algorithm read-in ECF Sourcefile

ALTERNATE DOCUMENTATION

n.a.

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CHAPTER 2. BUSINESS REGISTER BRIDGE (BRB)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
State Employer ID Number	SEIN	00000	12	A/N

${\it CHARACTERISTICS}$

Units (State-specific) Identifier

ALGORITHM read-in SOURCEFILE ECF

ALTERNATE DOCUMENTATION ECF documentation

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CHAPTER 2. BUSINESS REGISTER BRIDGE (BRB)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
State UI Reporting Unit Number	SEINUNIT	00012	5	A/N

${\it CHARACTERISTICS}$

Units (State-specific) Identifier

Algorithm read-in ECF Sourcefile

ECF documentation ALTERNATE DOCUMENTATION

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CHAPTER 2. BUSINESS REGISTER BRIDGE (BRB)

Field name	Data dictionary reference name	Starting position	Field size	Data type
Year YYYY	YEAR	00037	3	N

${\it CHARACTERISTICS}$

Units Calendar Algorithm read-in

ECF Sourcefile

ECF documentation ALTERNATE DOCUMENTATION

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2.4.4 Summary information on datasets

Table 2.50: Number of observations for BRB

	Number of	Records	Filesize
Group	datafiles	(1000s)	(GB)
BRB	6	768,000	50

Table 2.51: List of data files for BRB, by state

File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)
	Sort order	,		
National (us)				
brb_us_brlist	1992Q1	2001Q4	127,900	10
	year ein	state coun	ty sic4 CFN	
brb_us_ecflist	1992Q1	2001Q4	179,200	10
	$year\ ein$	state coun	ty sic4 sein seinunit	quarter
brb_us_xwalk	1992Q1	2001Q4	143,700	10
	year ein	state coun	ty sic4	
lbdb_us_ecflist	2001Q1	2004Q1	158,500	10
	$year\ ein$	state coun	ty naics02 naics97 s	ein seinunit quarter
lbdb_us_lbdlist	2001Q1	2004Q1	60,300	5
	year ein	state coun	ty naics02 naics97 c	fn
lbdb_us_xwalk	2001Q1	2004Q1	98,400	5
	$year\ ein$	state coun	ty naics6 naics_vinta	ige

Number of files for each data set group and state. Aggregate size of all files in GB in parentheses.

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2.5 NOTES

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Chapter 3. Employer Characteristics File (ECF)

3.1 **OVERVIEW**

3.1.1 General Overview

The Employer Characteristics File (ECF) consolidates LEHD employer microdata information on size, location, industry, etc., into two easily accessible files. For each firm identified by SEIN, establishment-level data, identified by SEIN-SEINUNIT, is stored in the "SEINUNIT file." Some information is aggregated to the SEIN level, and stored in the "SEIN file." The SEIN file contains no new information, and should be viewed merely as an easier and/or more efficient way of accessing data aggregated to the firm level. Each file contains one record for every YEAR QUARTER a firm and/or establishment is present in either the ES-202 or the UI. All information is subject to extensive data edits and imputation, and the final files contain no missing information. The files can be linked to other Census data through the use of the LEHD SEIN as well as the EIN.

3.1.2Input Files

- The ES202 data from the states is the primary input to the ECF file creation process.
- UI data is also used to supplement information on the ES202. As part of the creation of the Employment History Files (EHF), ehf_sein_employment is created. This file contains E (end of period employment), B (beginning of period employment), M (employed anytime in the quarter), and W1 (total wages) calculated similarly to the same measures on the QWI (see Abowd et al., 2006, 2009).
- GAL data containing lat/long coordinates of the establishments, plus county, wib and pmsa geo also.
- Existing files with permanent distortion factors must be available if data for the state has been officially released. (these files are not available in the RDC network.)
- SIC and NAICS impute datasets: available upon demand.
- BLS-derived control totals, produced by the EHF.

3.1.3 **Program Overview**

First data is read in from the yearly ES202 files and stacked one on top of the other. General and state specific consistency checks are then performed. The COUNTY, NAICS, and EIN data are checked for invalid values. The SIC invalid check is a little more sophisticated. If a 4 digit SIC code is present, but is not valid, then the SIC code undergoes a conditional impute based on the first 2 or 3 digits. If the first 2 or 3 digits are not valid either, then SIC is set to missing (this value will eventually be filled).

The ES202 data contains a "master" record for multi-unit firms that must be removed. Information in the master record is preserved if data is not available in the establishment records (data is initially allocated

LEHD-OVERVIEW-S2008 Page 3-1 equally to each establishment). Various inconsistencies in the record structure are also dealt with, such as 2 records (master and establishment) appearing for a single-unit.

The UI data is integrated with the ES202 data and totals are calculated at the SEIN YEAR QUARTER level.

Using both UI and ES202 data a "best" series of variables for payroll and employment is created.

The allocation process implemented above (master to establishments) does not incorporate any information on the structure of the firm. A flat prior is used in the allocation process (each establishment is assumed to have equal employment and payroll). We improve on this by examining firms with allocated data that previously reported as a multi-unit. The structure of their reports from a previous quarter is then used to allocate payroll and employment. The new records are integrated back into the data, hopefully improving longitudinal consistency at the establishment level.

At this point, the SEIN YEAR QUARTER SEINUNIT dataset record structure is finalized.

The GAL is brought into the ECF (this used to be the separate LEG process).

The COUNTY, SIC, NAICS, and EIN data are transformed from long to wide format for each SEINUNIT. This dataset is used to fill missing values in these variables with information from other periods for the same establishment.

The modal COUNTY, SIC, NAICS, OWNER_CODE, and EIN are calculated (both establishment and employment weighted) for each SEIN in a given YEAR and QUARTER.

The SEIN level mode variables (SIC, NAICS, etc) are then transformed from long to wide and the missing values are filled with data from the closest YEAR and QUARTER, if available.

At this point, if an SEIN mode variable has a missing value, then that missing value must be present for every YEAR and QUARTER. The distribution of employment across 4 digit SIC in 1997 is calculated and is used to impute the industry code for each SEIN with missing SIC. These SIC codes are also assigned to the **SEINUNIT** level data.

The weights are calculated, based on the expanded BLS controltotals acquired from the EHF.

The final step is to apply fuzz (noise distortion) factors to each dataset. The fuzz factor process is done separately for the SEIN and the SEINUNIT data. Once this is completed the datasets are written to their final location and the master fuzz files are updated.

ECF RESEARCH VERSION, TITLE 26, AND THE STRUCTURE OF 3.2FILES IN THE RDC ENVIRONMENT

Because some data elements on the internal-use ECF are considered Title 26-protected, the structure of the files has been slightly modified for the RDC environment to facilitate and streamline project proposals by clearly identifying files without any Title 26-protected data (from Fall 2006 onwards).

All Title 26-protected information has been stripped out of the main ECF files, and stored in strip files with the same record count, but only those variables that are Title 26 protected.

Furthermore, in the S2008 snapshot, the ECF files were restructured (relative to the S2004 and LEHD Production source files) to be more user-friendly. By construction, the ECF files produced by LEHD have much auxiliary information, helpful for identifying sources of imputations and edits, and allowing for the use of multiple sources of industry coding, geography, and other establishment and firm characteristics. However, most researchers do not need that kind of detail. For the S2008 snapshot, we separated the auxiliary output from the core ECF content, creating a leaner, easier-to-use ECF. The auxiliary output remains available, but in a separate file (suffixed with _aux).

We also made a cleaner distinction between SEIN (firm) level variables and SEINUNIT (establishment) variables.

We note that no new variables were created, and no variables were removed. The information is simply organized in a (hopefully) simpler way. Users who previously used the S2004 snapshot may need to restructure their programs to access the information. There is no straightforward way to reconstruct the previous data structure from the current data files.

Users will find all Title 13-protected content in the directories

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ecf/ecf_XX_sein.sas7bdat
ecf/ecf_XX_sein_aux.sas7bdat
ecf/ecf_XX_seinunit.sas7bdat
ecf/ecf_XX_seinunit_aux.sas7bdat

Title 26-protected content can be found in

ecft26/ecf_XX_sein_t26.sas7bdat
ecft26/ecf_XX_seinunit_t26.sas7bdat

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3.3 DATA SET DESCRIPTIONS

3.3.1 Naming scheme

There are four files in the ECF/ECFT26 group:

```
ecf_zz_sein.sas7bdat
ecf_zz_seinunit.sas7bdat
ecf_zz_sein_t26.sas7bdat
ecf_zz_seinunit_t26.sas7bdat
```

ZZ stands for the state postal abbreviation. Files with _t26 contain FTI, are stored in separate subdirectories and require a separate set of permissions. They are of little use without the regular ECF group data. You will find zero-observation SAS datasets attached to this document - see the attachment tab.

3.3.2 Data location

The files are stored in two main directories, with state-specific subdirectories:

 $\begin{array}{ll} \text{ecf/ZZ/} & \text{for most files} \\ \text{ecft26/ZZ} & \text{for files with Title 26 protected content} \end{array}$

On the RDC network, both directories can be found under

/mixed/lehd/current

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3.3.3 Main SEINUNIT dataset: ecf_zz_seinunit

SEINUNIT-level file, research variables only.

Record identifier: SEIN SEINUNIT YEAR QUARTER

Sort order: SEIN SEINUNIT YEAR QUARTER

File indexes: SEIN_YEAR_QUARTER_SEINUNIT

Entity "establishment" or SESA

Unique Entity Key SEIN SEINUNIT

Note that SEINUNIT is only unique within any given time period within SEIN.

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
0=ok,1=not found,2+found off qtr	ES_COUNTY_MISS	00101	3	N
0=ok,1=not found,2+found off qtr	ES_EIN_MISS	00107	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_ESO1997_MISS	00113	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_ESO2002_MISS	00116	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_ESO2007_MISS	00119	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_FNL1997_MISS	00122	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_FNL2002_MISS	00125	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_FNL2007_MISS	00128	3	N
0=ok,1=not found,2+found off qtr	ES_OWNER_CODE_MISS	00104	3	N
0=ok,1=not found,2+found off qtr	ES_SIC_MISS	00098	3	N
1=UI only,2=202 only,3=both	SOURCE	00075	3	N
5-digit Core-Based Statistical Area	LEG_CBSA	00247	5	A/N
Best UI/202 Employment Month 1	BEST_EMP1	00052	4	N
Best UI/202 Employment Month 2	BEST_EMP2	00056	4	N
Best UI/202 Employment Month 3	BEST_EMP3	00060	4	N
Best UI/202 Wages	BEST_WAGES	00078	5	N
CBSA Type 1=Metro, 2=Micro, Else=9	LEG_CBSA_MEMI	00252	1	A/N
Census Block suffix 1	LEG_BLOCK_SUF1	00245	1	A/N
Census Block suffix 2	LEG_BLOCK_SUF2	00246	1	A/N
Census block within tract	LEG_BLOCK	00241	4	A/N
Cleaned EIN	ES_EIN	00312	9	A/N
Cleaned ES202 FIPS County CCC	ES_COUNTY	00309	3	A/N
Cleaned GEO FIPS County CCC	LEG_COUNTY	00302	3	A/N
Cleaned GEO State SS	LEG_STATE	00298	2	A/N
Cleaned OWNER_CODE O	ES_OWNER_CODE	00321	1	A/N
Cleaned SIC Code IIII	ES_SIC	00305	4	A/N
Cleaned SIC Division I	ES_SIC_DIV	00379	1	A/N
Continuous Time YEAR QUARTER	YR_QTR	00143	6	A/N
EIN in known IRD	VALID_EIN	00092	3	N
ES202 FIPS State SS	ES_STATE	00300	2	A/N
ES202 ONLY 1997 NAICS Code NNNNNN	ES_NAICS_ESO1997	00340	6	A/N
ES202 ONLY 2002 NAICS Code NNNNNN	ES_NAICS_ESO2002	00346	6	A/N
ES202 ONLY 2007 NAICS Code NNNNNN	ES_NAICS_ESO2007	00352	6	A/N
FIPS state——FIPS county——Census tract	LEG_GEOCODE	00230	11	A/N
Federal EIN	EIN	00032	8	N
Final 1997 NAICS Code NNNNNN	ES_NAICS_FNL1997	00322	6	A/N
Final 2002 NAICS Code NNNNNN	ES_NAICS_FNL2002	00328	6	A/N
Final 2007 NAICS Code NNNNNN	ES_NAICS_FNL2007	00334	6	A/N
Final GALID	LEG_GALID	00269	29	A/N
Firm engaged (not) engaged in production	QCEW_AUXILIARY_CODE	00194	1	A/N
Latitude, 6 implied decimal places	LEG_LATITUDE	00000	8	N
Letters a-z,A-Z in EIN	EIN_BAD	00086	3	N
Longitude, 6 implied decimal places	LEG_LONGITUDE	00008	8	N
Original ES202 County	QCEW_COUNTY	00209	3	A/N
Original ES202 EIN	QCEW_EIN	00200	9	A/N
Original ES202 Employment Month 1	QCEW_EMPL_MONTH1	00040	4	N

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CHAPTER 3. EMPLOYER CHARACTERISTICS FILE (ECF)

Field name	Data dictionary	Starting	Field	Data
rieid name	· ·	0		
0.1.1.1.1.1.1.2	reference name	position	size	type
Original ES202 Employment Month 2	QCEW_EMPL_MONTH2	00044	4	N
Original ES202 Employment Month 3	QCEW_EMPL_MONTH3	00048	4	N
Original ES202 SIC	QCEW_SIC	00196	4	A/N
Original ES202 wages	QCEW_TOTAL_WAGES	00070	5	N
Original NAICS 1997 Code	QCEW_NAICS1997	00158	6	A/N
Original NAICS 2002 Code	QCEW_NAICS2002	00164	6	A/N
Original NAICS 2007 Code	QCEW_NAICS2007	00170	6	A/N
Original NAICS AUX 1997 Code	QCEW_NAICS_AUX1997	00176	6	A/N
Original NAICS AUX 2002 Code	QCEW_NAICS_AUX2002	00182	6	A/N
Original NAICS AUX 2007 Code	QCEW_NAICS_AUX2007	00188	6	A/N
Original NAICS LDB 1997 Code	QCEW_NAICS_LDB1997	00212	6	A/N
Original NAICS LDB 2002 Code	QCEW_NAICS_LDB2002	00218	6	A/N
Original NAICS LDB 2007 Code	QCEW_NAICS_LDB2007	00224	6	A/N
Original Owner Code	QCEW_OWNER_CODE	00195	1	A/N
Problem with EIN	EIN_DEFECT	00089	3	N
Quality of final geography	LEG_GEO_QUAL	00095	3	N
Quarter QQ	QUARTER	00067	3	N
Quarters Away EIN data found	ES_EIN_FLAG	00110	3	N
Random sample selector for SEINUNIT	SAMPLE_SEINUNIT	00024	8	N
Reported or imputed Month 1 Employment	QCEW_EMPL_MONTH1_FLG	00154	1	A/N
Reported or imputed Month 2 Employment	QCEW_EMPL_MONTH2_FLG	00155	1	A/N
Reported or imputed Month 3 Employment	QCEW_EMPL_MONTH3_FLG	00156	1	A/N
Reported or imputed Total Wages	$QCEW_TOTAL_WAGES_FLG$	00157	1	A/N
Source of Ind Code	ES_NAICS_ESO1997_SRC	00370	3	A/N
Source of Ind Code	ES_NAICS_ESO2002_SRC	00373	3	A/N
Source of Ind Code	ES_NAICS_ESO2007_SRC	00376	3	A/N
Source of Ind Code	ES_NAICS_FNL1997_SRC	00361	3	A/N
Source of Ind Code	ES_NAICS_FNL2002_SRC	00364	3	A/N
Source of Ind Code	ES_NAICS_FNL2007_SRC	00367	3	A/N
Source of Ind Code	ES_SIC_SRC	00358	3	A/N
Source of best_ data	BEST_FLAG	00083	3	N
State Employer ID Number	SEIN	00131	12	A/N
State UI Reporting Unit Number	SEINUNIT	00149	5	A/N
Sub-county Geography from the LEG	LEG_SUBCTYGEO	00259	10	A/N
Weight sum(B_UI)=sum(month1_BLS)	QWI_UNIT_WEIGHT	00016	8	N
Workforce Investment Board area	LEG_WIB	00253	6	A/N
Year YYYY	YEAR	00064	3	N

3.3.4 Auxiliary SEINUNIT dataset: ecf_zz_seinunit_aux

SEINUNIT-level file, auxiliary and diagnostic variables only.

Record identifier: SEIN SEINUNIT YEAR QUARTER

Sort order: SEIN SEINUNIT YEAR QUARTER

 $\textbf{File indexes:} \ \text{SEIN_YEAR_QUARTER_SEINUNIT}$

Entity "establishment" or SESA

Unique Entity Key SEIN SEINUNIT

Note that SEINUNIT is only unique within any given time period within SEIN.

Data dictionary	Starting	Field	Data
reference name	position	size	type
SEINUNIT_TYPE	00027	3	N
ES_NAICS1997_MISS	00054	3	N
ES_NAICS2002_MISS	00057	3	N
ES_NAICS2007_MISS	00060	3	N
ES_NAICS_AUX1997_MISS	00063	3	N
	SEINUNIT_TYPE ES_NAICS1997_MISS ES_NAICS2002_MISS ES_NAICS2007_MISS	SEINUNIT_TYPE 00027 ES_NAICS1997_MISS 00054 ES_NAICS2002_MISS 00057 ES_NAICS2007_MISS 00060	SEINUNIT_TYPE 00027 3 ES_NAICS1997_MISS 00054 3 ES_NAICS2002_MISS 00057 3 ES_NAICS2007_MISS 00060 3

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CHAPTER 3. EMPLOYER CHARACTERISTICS FILE (ECF)

CHAPTER 3. EMPLOYER CHARACTER	(/		T: 13	I D /
Field name	Data dictionary	Starting	Field	Data
0 - als 1 - mat formal 2 + formal - ff - th	reference name	position	size	type
0=ok,1=not found,2+found off qtr	ES_NAICS_AUX2002_MISS	00066 00069	3	N
0=ok,1=not found,2+found off qtr 0=ok,1=not found,2+found off qtr	ES_NAICS_AUX2007_MISS ES_NAICS_IMP1997_MISS	00009	3 8	N N
0=ok,1=not found,2+found off qtr	ES_NAICS_IMP1997_MISS ES_NAICS_IMP2002_MISS	00000	8	N N
0=0k,1=not found,2+found off qtr	ES_NAICS_IMF2007_MISS	00016	8	N
0=ok,1=not found,2+found off qtr	ES_NAICS_LDB1997_MISS	00072	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_LDB2002_MISS	00075	3	N
0=ok,1=not found,2+found off qtr	ES_NAICS_LDB2007_MISS	00078	3	N
Cleaned 1997 NAICS Code NNNNNN	ES_NAICS1997	00206	6	A/N
Cleaned 1997 NAICS Code NNNNNN	ES_NAICS_AUX1997	00224	6	A/N
Cleaned 1997 NAICS Code NNNNNN	ES_NAICS_LDB1997	00242	6	A/N
Cleaned 2002 NAICS Code NNNNNN	ES_NAICS2002	00212	6	A/N
Cleaned 2002 NAICS Code NNNNNN	ES_NAICS_AUX2002	00230	6	A/N
Cleaned 2002 NAICS Code NNNNNN	ES_NAICS_LDB2002	00248	6	A/N
Cleaned 2007 NAICS Code NNNNNN	ES_NAICS2007	00218	6	A/N
Cleaned 2007 NAICS Code NNNNNN	ES_NAICS_AUX2007	00236	6	A/N
Cleaned 2007 NAICS Code NNNNNN	ES_NAICS_LDB2007	00254	6	A/N
EIN in known IRD	VALID_EIN	00048	3	N
Flag, number of quarters to find geocodes	LEG_FLAG_GEO	00051	3	N
GALID of address on es202	ES_GALID	00177	29	A/N
Letters a-z,A-Z in EIN	EIN_BAD	00042	3	N
Multiunit Imputed Record Structure	STRUCTURE_FIX	00039	3 1	N a/N
NAICS Code not Valid	NAICS_1997_INVALID	$00167 \\ 00168$	1	A/N
NAICS Code not Valid NAICS Code not Valid	NAICS_2002_INVALID NAICS_2007_INVALID	00168	1	A/N A/N
NAICS Code not Valid	NAICS_AUX_1997_INVALID	00109	1	A/N
NAICS Code not Valid	NAICS_AUX_2002_INVALID	00170	1	A/N
NAICS Code not Valid	NAICS_AUX_2007_INVALID	00172	1	A/N
NAICS Code not Valid	NAICS_LDB_1997_INVALID	00174	1	A/N
NAICS Code not Valid	NAICS_LDB_2002_INVALID	00175	1	A/N
NAICS Code not Valid	NAICS_LDB_2007_INVALID	00176	1	A/N
Problem with EIN	EIN_DEFECT	00045	3	N
Quarter QQ	QUARTER	00033	3	N
Quarters Away County data found	ES_COUNTY_FLAG	00111	3	N
Quarters Away Data Found	${\tt MODE_ES_COUNTY_EMP_FLAG}$	00147	3	N
Quarters Away EIN data found	ES_EIN_FLAG	00114	3	N
Quarters Away NAICS data found	ES_NAICS1997_FLAG	00084	3	N
Quarters Away NAICS data found	ES_NAICS2002_FLAG	00087	3	N
Quarters Away NAICS data found	ES_NAICS2007_FLAG	00090	3	N
Quarters Away NAICS data found	ES_NAICS_AUX1997_FLAG	00093	3	N
Quarters Away NAICS data found	ES_NAICS_AUX2002_FLAG	00096	3	N
Quarters Away NAICS data found	ES_NAICS_AUX2007_FLAG	00099	3	N
Quarters Away NAICS data found	ES_NAICS_LDB1997_FLAG	00102	3 3	N
Quarters Away NAICS data found Quarters Away NAICS data found	ES_NAICS_LDB2002_FLAG ES_NAICS_LDB2007_FLAG	$00105 \\ 00108$	ა 3	N N
Quarters Away NAICS data found Quarters Away SIC data found	ES_NAICS_LDB2007_FLAG ES_SIC_FLAG	00108	3 3	N N
SEINUNIT data non-numeric	SEINUNIT_BAD	00024	3	N
SIC Code not Valid	QCEW_SIC_INVALID	00024	1	A/N
SIC IMP 1997 NAICS Code NNNNNN	ES_NAICS_IMP1997	00260	6	A/N
SIC IMP 2002 NAICS Code NNNNNN	ES_NAICS_IMP2002	00266	6	A/N
SIC IMP 2007 NAICS Code NNNNNN	ES_NAICS_IMP2007	00272	6	A/N
Seinunit has some NAICS info	ES_NAICS1997_VALID	00120	3	'N
Seinunit has some NAICS info	ES_NAICS2002_VALID	00123	3	N
Seinunit has some NAICS info	ES_NAICS2007_VALID	00126	3	N
Seinunit has some NAICS info	ES_NAICS_AUX1997_VALID	00129	3	N
Seinunit has some NAICS info	ES_NAICS_AUX2002_VALID	00132	3	N
Seinunit has some NAICS info	ES_NAICS_AUX2007_VALID	00135	3	N
Seinunit has some NAICS info	ES_NAICS_LDB1997_VALID	00138	3	N
Seinunit has some NAICS info	ES_NAICS_LDB2002_VALID	00141	3	N
Seinunit has some NAICS info	ES_NAICS_LDB2007_VALID	00144	3	N
Seinunit has some SIC info	ES_SIC_VALID	00117	3	N
Source of Ind Code	ES_NAICS1997_SRC	00278	3	A/N
Source of Ind Code	ES_NAICS2002_SRC	00281	3	A/N
			~	/

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Source of Ind Code	ES_NAICS2007_SRC	00284	3	A/N
Source of Ind Code	ES_NAICS_AUX1997_SRC	00287	3	A/N
Source of Ind Code	ES_NAICS_AUX2002_SRC	00290	3	A/N
Source of Ind Code	ES_NAICS_AUX2007_SRC	00293	3	A/N
Source of Ind Code	ES_NAICS_IMP1997_SRC	00305	3	A/N
Source of Ind Code	ES_NAICS_IMP2002_SRC	00308	3	A/N
Source of Ind Code	ES_NAICS_IMP2007_SRC	00311	3	A/N
Source of Ind Code	ES_NAICS_LDB1997_SRC	00296	3	A/N
Source of Ind Code	ES_NAICS_LDB2002_SRC	00299	3	A/N
Source of Ind Code	ES_NAICS_LDB2007_SRC	00302	3	A/N
State Employer ID Number	SEIN	00150	12	A/N
State UI Reporting Unit Number	SEINUNIT	00162	5	A/N
Year YYYY	YEAR	00030	3	N
candidate for structure fix	SPECIAL_HANDLE	00036	3	N

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3.3.5 Main SEIN dataset: ecf_zz_sein

SEIN-level file, with variables aggregated from the establishment level.

Record identifier: SEIN YEAR QUARTER

Sort order: SEIN YEAR QUARTER

File indexes: none

Entity "firm"

Unique Entity Key SEIN

Note that SEIN is unique within any given time period across all states, but may not be uniquely identify an entity over time within a state, as the underlying UI account numbers can and do get re-used.

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
1=UI only,2=202 only,3=both	SOURCE	00084	3	N
Continuous Time YEAR QUARTER	YR_QTR	00193	6	A/N
ES202 FIPS State SS	ES_STATE	00199	2	A/N
ES202 multi-unit (non) reporter	MULTI_UNIT_CODE	00325	1	A/N
Emp Mode Cleaned County	MODE_ES_COUNTY_EMP	00240	3	A/N
Emp Mode Cleaned EIN	MODE_ES_EIN_EMP	00243	9	A/N
Emp Mode Cleaned GEO CBSA	$MODE_LEG_CBSA_EMP$	00319	5	A/N
Emp Mode Cleaned GEO CBSA type	MODE_LEG_CBSA_MEMI_EMP	00324	1	A/N
Emp Mode Cleaned GEO COUNTY	MODE_LEG_COUNTY_EMP	00290	3	A/N
Emp Mode Cleaned GEO COUNTY	MODE_LEG_SUBCTYGEO_EMP	00303	10	A/N
Emp Mode Cleaned GEO STATE	MODE_LEG_STATE_EMP	00285	2	A/N
Emp Mode Cleaned GEO WIB	MODE_LEG_WIB_EMP	00277	6	A/N
Emp Mode Cleaned NAICS 1997	MODE_ES_NAICS_FNL1997_EMP	00252	6	A/N
Emp Mode Cleaned NAICS 2002	MODE_ES_NAICS_FNL2002_EMP	00258	6	A/N
Emp Mode Cleaned NAICS 2007	MODE_ES_NAICS_FNL2007_EMP	00264	6	A/N
Emp Mode Cleaned OWNER_CODE	MODE_ES_OWNER_CODE_EMP	00270	1	A/N
Emp Mode Cleaned SIC	MODE_ES_SIC_EMP	00236	4	A/N
MULTI ever has multiple units	EVER_MULTI	00081	3	N
MULTI: First Quarter SEIN on 202	MULTI_FIRST_QUARTER	00078	3	N
MULTI: First Year SEIN on 202	MULTI_FIRST_YEAR	00075	3	N
Missing Value	MODE_ES_COUNTY_EMP_MISS	00154	3	N
Missing Value	MODE_ES_COUNTY_MISS	00115	3	N
Missing Value	MODE_ES_EIN_EMP_MISS	00160	3	N
Missing Value	MODE_ES_EIN_MISS	00121	3	N
Missing Value	MODE_ES_NAICS_FNL1997_EMP_MISS	00145	3	N
Missing Value	MODE_ES_NAICS_FNL1997_MISS	00106	3	N
Missing Value	MODE_ES_NAICS_FNL2002_EMP_MISS	00148	3	N
Missing Value	MODE_ES_NAICS_FNL2002_MISS	00109	3	N
Missing Value	MODE_ES_NAICS_FNL2007_EMP_MISS	00151	3	N
Missing Value	MODE_ES_NAICS_FNL2007_MISS	00112	3	N
Missing Value	MODE_ES_OWNER_CODE_EMP_MISS	00157	3	N
Missing Value	MODE_ES_OWNER_CODE_MISS	00118	3	N
Missing Value	MODE_ES_SIC_EMP_MISS	00142	3	N
Missing Value	MODE_ES_SIC_MISS	00103	3	N
Missing Value	$MODE_LEG_CBSA_EMP_MISS$	00166	3	N
Missing Value	MODE_LEG_CBSA_MISS	00127	3	N
Missing Value	MODE_LEG_COUNTY_EMP_MISS	00172	3	N
Missing Value	MODE_LEG_COUNTY_MISS	00133	3	N
Missing Value	MODE_LEG_STATE_EMP_MISS	00169	3	N
Missing Value	$MODE_LEG_STATE_MISS$	00130	3	N
Missing Value	MODE_LEG_SUBCTYGEO_EMP_MISS	00175	3	N
Missing Value	MODE_LEG_SUBCTYGEO_MISS	00136	3	N
Missing Value	MODE_LEG_WIB_EMP_MISS	00163	3	N
Missing Value	MODE_LEG_WIB_MISS	00124	3	N
Number of Establishments	NUM_ESTABS	00016	4	N

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Field name	Data dictionary	Starting	Field	Data
Tiold Hallo	reference name	position	size	type
Original UI Payroll Info W1	UL-PAYROLL	00065	5	N
Quarter QQ	QUARTER	00062	3	N
Quarters Away Data Found	MODE_ES_EIN_EMP_FLAG	00178	3	N
Quarters Away Data Found	MODE_ES_EIN_FLAG	00139	3	N
Random sample selector for SEIN	SAMPLE_SEIN	00008	8	N
SEIN Best UI/202 Month 1, Employment	SEIN_BEST_EMP1	00044	4	N
SEIN Best UI/202 Month 2, Employment	SEIN_BEST_EMP2	00048	4	N
SEIN Best UI/202 Month 3, Employment	SEIN_BEST_EMP3	00052	4	N
SEIN Best UI/202 Payroll	SEIN_BEST_WAGES	00098	5	N
SEIN UI Wages	UI_WAGES	00093	5	N
SEIN in ES202/QCEW in this quarter	IN_202	00090	3	N
SEIN in UI in this quarter	IN_UI	00087	3	N
SEIN w/2+ records on 202	MULTI_UNIT	00056	3	N
State Employer ID Number	SEIN	00181	12	A/N
Stored Master Multi Code	MASTER_MULTI_UNIT_CODE	00330	1	A/N
Stored Master Record Flag	MASTER_EMPL_MONTH1_FLG	00326	1	A/N
Stored Master Record Flag	MASTER_EMPL_MONTH2_FLG	00327	1	A/N
Stored Master Record Flag	MASTER_EMPL_MONTH3_FLG	00328	1	A/N
Stored Master Record Flag	MASTER_TOTAL_WAGES_FLG	00329	1	A/N
Sum of QCEW-reported: Quarterly Wages	QCEW_SEIN_WAGES	00070	5	N
Sum of QCEW-reported: Employment Month 1	QCEW_SEIN_EMP1	00032	4	N
Sum of QCEW-reported: Employment Month 2	QCEW_SEIN_EMP2	00036	4	N
Sum of QCEW-reported: Employment Month 3	QCEW_SEIN_EMP3	00040	4	N
UI Employment B	UI_SEINSIZE_B	00028	4	N
UI Employment E	UI_SEINSIZE_E	00024	4	N
UI Employment M	UI_SEINSIZE_M	00020	4	N
Unit Mode Cleaned County	MODE_ES_COUNTY	00205	3	A/N
Unit Mode Cleaned EIN	MODE_ES_EIN	00208	9	A/N
Unit Mode Cleaned GEO CBSA	MODE_LEG_CBSA	00313	5	A/N
Unit Mode Cleaned GEO CBSA type	MODE_LEG_CBSA_MEMI	00318	1	A/N
Unit Mode Cleaned GEO COUNTY	MODE_LEG_COUNTY	00287	3	A/N
Unit Mode Cleaned GEO COUNTY	MODE_LEG_SUBCTYGEO	00293	10	A/N
Unit Mode Cleaned GEO STATE	MODE_LEG_STATE	00283	2	A/N
Unit Mode Cleaned GEO WIB	MODE_LEG_WIB	00271	6	A/N
Unit Mode Cleaned NAICS 1997	MODE_ES_NAICS_FNL1997	00217	6	A/N
Unit Mode Cleaned NAICS 2002	MODE_ES_NAICS_FNL2002	00223	6	A/N
Unit Mode Cleaned NAICS 2007	MODE_ES_NAICS_FNL2007	00229	6	A/N
Unit Mode Cleaned OWNER_CODE	MODE_ES_OWNER_CODE	00235	1	A/N
Unit Mode Cleaned SIC	MODE_ES_SIC	00201	4	A/N
Weight $sum(B_UI) = sum(month1_BLS)$	QWI_UNIT_WEIGHT	00000	8	N
Year YYYY	YEAR	00059	3	N

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3.3.6 Auxiliary SEINUNIT T26 dataset: ecf_zz_seinunit_t26

T26 variables associated with the SEINUNIT-level file. Note that as of the S2004 version, only California (CA) has such files.

Record identifier: SEIN SEINUNIT YEAR QUARTER

Sort order: SEIN SEINUNIT YEAR QUARTER

File indexes: none

Entity "establishment" or SESA

Unique Entity Key SEIN SEINUNIT

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
0=ok,1=not found,2+found off qtr	ES_EIN_MISS	00032	8	N
Cleaned EIN	ES_EIN	00071	9	A/N
EIN in known IRD	VALID_EIN	00040	8	N
Letters a-z,A-Z in EIN	EIN_BAD	00008	8	N
Original ES202 EIN	EIN	00000	8	N
Problem with EIN	EIN_DEFECT	00016	8	N
Quarter QQ	QUARTER	00051	3	N
Quarters Away EIN data found	ES_EIN_FLAG	00024	8	N
State Employer ID Number	SEIN	00054	12	A/N
State UI Reporting Unit Number	SEINUNIT	00066	5	A/N
Year YYYY	YEAR	00048	3	N

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3.3.7 Auxiliary SEIN T26 dataset: ecf_zz_sein_t26

T26 variables associated with the SEIN-level file. Note that as of the S2004 version, only California (CA) has such files.

Record identifier: SEIN YEAR QUARTER

Sort order: SEIN YEAR QUARTER

File indexes: none

Entity "firm"

Unique Entity Key SEIN

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Emp Mode Cleaned EIN	MODE_ES_EIN_EMP	00059	9	A/N
Emp Mode Cleaned EIN: Missing value	MODE_ES_EIN_EMP_MISS	00024	8	N
Emp Mode Cleaned EIN: Quarters Away Data Found	MODE_ES_EIN_EMP_FLAG	00016	8	N
Quarter QQ	QUARTER	00035	3	N
State Employer ID Number	SEIN	00038	12	A/N
Unit Mode Cleaned EIN	MODE_ES_EIN	00050	9	A/N
Unit Mode Cleaned EIN: Missing value	MODE_ES_EIN_MISS	00008	8	N
Unit Mode Cleaned EIN: Quarters Away Data Found	MODE_ES_EIN_FLAG	00000	8	N
Year YYYY	YEAR	00032	3	N

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3.3.8 Details on variables

sein Variables read in from the ES202 yearly files.

12 digit firm identifier (first 2 digits are the state FIPS code)

year

quarter

seinunit 5 digit code identifying the establishment. Generally used in combination with the SEIN to uniquely identify an establishment. The identifier itself is only unique within a firm or SEIN.

owner_code see ES_OWNER_CODE

EIN

county

SIC

NAICS

empl_month1

 $empl_month2$

 $empl_month3$

total_wages End of variables read in from the ES202 yearly files.

Sein_bad 0 = SEIN contains only characters 0-9

1 = SEIN contains a character outside the above range

Ein_bad 0 = EIN contains only characters 0-9

1 = EIN contains a character outside the above range

Valid_ein 0 = first 2 digits of EIN do not represent a valid IRS Revenue district code

1 =first 2 digits are valid

 $\mathbf{Ein_defect}$ 0 = no defect found

- 1 = EIN it is all nines or all zeros
- 2 = ein_bad=1, EIN contains characters outside the range 0-9
- 3 = EIN is a 7 digit or less number. An EIN must be at least eight characters
- 4 = valid_ein=0, the first two digits of the EIN do not represent a valid IRS Revenue district code

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Sic_invalid 0 = SIC is OK

- 1 = SIC not valid
- 2 =first 2 digits valid, last 2 digits imputed
- 3 = first 3 digits valid, last digit imputed

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NUM_RECORDS 1-N = the number of records for each SEIN in a given year and quarter

All_miss_(pay,emp1,emp2,emp3,sic,county) 0 = at least one or more subunits has data1 =all subunits have missing data

num_estabs 1-N = the number of establishments for each SEIN in a given year and quarter

 $\mathbf{multi_unit}$ 0 = not a multi unit 1 = multi unit

impute_(wage,emp1,emp2,emp3,sic,county) 0 = data not available or imputation unnecessary 1 = data available in master record and no data in subunits

 $no_{-}(wages, emp1, emp2, emp3, sic, county)$ 0 = data available in either master record or subunits 1 = no data in either master record or subunits

master_(wage,emp1,emp2,emp3,sic,county) Information contained in the master record is stored here

```
seinunit_type 0 = seinunit="00000"
   1 = seinunit \sim = 00000
```

seinsize_m variables read in from the UI SEIN YEAR QUARTER summary file. Count of PIK level wage records that appear at an SEIN in a given YEAR QUARTER.

seinsize_b Count of PIK level wage records that appear at an SEIN in both the current and previous YEAR QUARTER

seinsize_e Count of PIK level wage records that appear at an SEIN in both the current and subsequent YEAR QUARTER.

Payroll Sum of earnings for PIK level wage records at the SEIN in a given YEAR QUARTER.

ever_(multi,wages,emp1,emp2,emp3) 0 = the SEIN never reports data on the ES202

1 = the SEIN is a multi unit at some time or reports payroll or employment at some time during the observed period on the ES202.

sein_(emp1,emp2,emp3,wages) SEIN level totals for payroll and employment from the ES202

multi_first_year The first year when an SEIN appears as a multi unit on the ES202

multi_first_quarter The first quarter when an SEIN appears as a multi unit on the ES202

 in_UI 0 = SEIN is not on the UI in a given year and quarter 1 = SEIN appears on the UI in given year and quarter

in 202 0 = SEIN is not on the ES202 a given year and quarter 1 = SEIN appears on the ES202 in a given year and quarter

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```
source 1 = UI only 2 = ES202 only
```

3 = both UI and ES202

ever_202 0 = not on ES202

1 = SEIN appears on the ES202 at some time during observed period

yr_qtr A 6 character sequential year variable. Format is YYYY:Q. A 4 digit year, a colon, and a 1 digit quarter.

emp(1,2,3)_UI Attempt to create the best possible approximation of ES202 employment and payroll using UI data.

Emp1_UI = seinsize_b if available, then seinsize_e, and finally seinsize_m.

Emp2_UI = seinsize_b if available, then seinsize_e, and finally seinsize_m.

Emp1_UI = seinsize_e if available, then seinsize_b, and finally seinsize_m.

best_(wages,emp1,emp2,emp3) My best estimate of payroll and employment for a subunit using as much information available in the UI and ES202. I use both contemporaneous information and information about the firm in other years and quarters. If information is available in the ES202 then that data takes precedence over information in the UI.

best_flag NOTE: The best_flag variable when combined with the structure_fix variable can be used to identify the type of edits and data source of the best_xx variables.

0 = no wage or employment information on the ES202 or UI

In both UI and ES202 1 = SU, ES202 wages, UI employment is used 2 = SU, UI wages, ES202 employment is used 3 = SU, ES202 wages and employment are used 4 = SU, UI wages and employment are used

In ES202 only 5 = SU, ES202 wages and employment are used

In UI only 6 = SU, UI wages and employment are used

In both UI and ES202 7 = MU, ES202 wages, UI employment allocated based on ES202 wages 8 = MU, UI payroll allocated based on ES202 employment, ES202 employment is used 9 = MU, ES202 wages and employment are used 10 = MU, UI payroll and employment allocated equally across all establishments

In ES202 only 11 = MU, ES202 wages and employment are used In UI only for multi-units does not exist

 $info_202$ 0 = no ES202 info

1 = only wages available on ES202

2 = only employment available on ES202

3 = both wages and employment available on ES202

noemp_202 0 = positive ES202 employment

1 = employment is not 0 on the ES202

emp_202_miss 0 = not in the ES202 and non-missing ES202 employment 1 = in the ES202 and all ES202 employment is missing.

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special_handle 0 = no special handling required

 $1 = \text{in_UI}=1$ and $\text{in_202}=0$ and $\text{ever_multi}=1$

 $2 = \text{in_UI}=0$ and $\text{in_202}=1$ and $\text{impute_data}=1$

3 = in_UI=1 and in_202=1 and no_data=1 and multi_unit=1

 $4 = \text{in_UI}=1$ and $\text{in_202}=1$ and $\text{impute_data}=1$

 no_get_data 0 = get_XX=1 for at least one variable

 $1 = \text{get}_XX = 0$ for all variables

 $data_avail$ 0 = no data available

 $1 = \text{in}_{2}02=1$ and some subunit data available that period

 $impute_data$ 0 = no allocation of master to subunit that period

1 = allocation of master to subunit that period

 $\mathbf{no_data}$ 0 = data available

1 = no data in master or subunit available that period

get_(wages,emp1,emp2,emp3) 0 = special_handle=0 or special_handle=1 and no subunit wages available in other periods

1 = special_handle; 0 and subunit data is available in other periods

(wages,emp1,emp2,emp3)_202 Renamed sein_XX variables on the special_handle_06.sas7bdat dataset. This is necessary in the next program when I match a record with missing subunit information the to another record in another year and quarter.

Wages_UI Payroll is renamed similarly to emp(1,2,3,)_UI variables.

qtime_master Continuous quarter time from 1985 quarter 1 for the record for which I am trying to determine subunit structure.

qtime_first The first quarter in continuous time that an SEIN appears as a multi unit

year_found The closest year that contains subunit structure

quarter_found The closest quarter that contains subunit structure

Stop 0 = record not found

1 = record with subunit structure found

best_(wages,emp1,emp2,emp3) Update of original values computed in 05_best_vars.sas. My best estimate of payroll and employment for a subunit using as much information available in the UI and ES202. I use both contemporaneous information and information about the firm in other years and quarters. If information is available in the ES202 then that data takes precedence over information in the UI.

sein_best_(wages, emp1, emp2, emp3) SEIN YEAR QUARTER summaries of the best_XX variables.

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structure_fix NOTE: The best_flag variable when combined with the structure_fix variable can be used to identify the type of edits and data source of the best_xx variables.

- 0 = record not selected for structure imputation
- 1 = record selected for structure imputation

leg_state See the LEG documentation for more information on these variables

leg_county

leg_wib

leg_msapmsa

leg_geo_qual

leg_longitude

leg_latitude

leg_flag_geo

es_state FIPS code of the state

es_ein cleaned SEINUNIT EIN

9 digit federal firm identifier. Generally not unique within a state. There may be multiple state level firms for a given federal firm identifier.

es_county cleaned SEINUNIT county

3 digit FIPS county code.

es_naics cleaned SEINUNIT NAICS

es_owner_code cleaned SEINUNIT ownership code

- 1 = Federal Government
- 2 = State Government
- 3 = Local Government
- 5 = Private Sector

es_sic cleaned SEINUNIT SIC

es_(sic, naics, county, owner_code, ein)_miss 0 = Variable is not missing

- 1 =Variable is missing before using information from other quarters.
- 2 = Variable is not missing after search for off quarter information.

mode_es_XXX_emp+4 = Variable is missing, filled with the SEIN employment weighted mode value.

es_(sic, naics, county, owner_code, ein)_flag Missing = No information in other quarters

- 0 = Variable is not missing in current quarter
- \dot{z}_{0} 0 = quarter after the current quarter where replacement value is found
- j0 = quarter before the current quarter where replacement value is found

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mode_(es_sic, es_naics, es_county, es_owner_code, es_ein, leg_wib, leg_msapmsa, leg_state, leg_county, leg_subctygeo) The modal value of the variable in an SEIN YEAR QUARTER (unit weighted)

mode_(es_sic, es_naics, es_county, es_owner_code, es_ein, leg_wib, leg_msapmsa, leg_state, leg_county, leg_subctygeo)_emp The modal value of the variable in an SEIN YEAR QUARTER (employment weighted)

Place SIC, NAICS, COUNTY, ownership code, EIN and LEG SEIN level variables in arrays

mode_es_(sic, naics, county, owner_code, ein)_miss 0 = Variable is not missing

- 1 = Variable is missing before using information from other quarters.
- 2 = Variable is not missing after search for off quarter information.
- 6 = Variable is missing, filled with imputed value. Currently only used for SIC.
- 11 = variable missing, but value set to 5. Currently only used for owner_code. Assume records with missing ownership codes are private firms.

mode_es_(sic, naics, county, owner_code, ein)_emp_miss 0 = Variable is not missing

- 1 = Variable is missing before using information from other quarters.
- 2 = Variable is missing, filled with off quarter information.
- 5 = Variable is missing, filled with the corresponding unit weighted value
- 6 = Variable is missing, filled with imputed value. Currently only used for SIC.
- 11 = variable missing, but value set to 5. Currently only used for owner_code. Assume records with missing ownership codes are private firms.

mode_es_(sic, naics, county, owner_code, ein)_flag Missing = No information in other quarters

- 0 = Variable is not missing in current quarter
- $\dot{b}_{c}0 = 0$ quarter after the current quarter where replacement value is found
- io = quarter before the current quarter where replacement value is found

SEIN mode variables missing values are replaced. Missing codes are adjusted. See program 13 for an explanation of valid values.

SEINUNIT mode variables missing values are replaced. Missing codes are adjusted. See program 10 for an explanation of valid values.

es_sic_div SIC divisions (A, B, C, ..., Z)

ES_SIC_2 First 2 digits of the 4 digit SIC

ES_SIC_3 First 3 digits of the 4 digit SIC

ES_NAICS_2 First 2 digits of the 6 digit NAICS

ES_NAICS_3 First 3 digits of the 6 digit NAICS

Only temporary variables used in the calculation of the weights are created. qwi_unit_weight = Final ECF weight. See technical documentation for the weights for detailed information.

Suppressed for confidentiality

No new variables are created.

 $\mathbf{DATE_(SEIN,\,SEINUNIT)_FUZZ} \quad \mathrm{SAS\,\,date\,\,value\,\,for\,\,when\,\,the\,\,fuzz\,\,factor\,\,was\,\,created}.$

LEHD-OVERVIEW-S2008 Page 3-18 Revision: 432 **UPDATE_NUMBER_(SEIN, SEINUNIT)** Sequential update number. The first time the ECF is created all fuzz factors receive a value of 0. The value is incremented by 1 each time any fuzz factors are added to the master file.

3.4 NAICS CODES ON THE ECF

Enhanced NAICS variables are available on all ECF since February 2003. The variable list below shows that there are 75 new variables for NAICS alone. The variables can be differentiated mainly by the source(s) and coding system used in their creation. There are two sources of data; the ES202 and the Longitudinal Data Base (LDB) from the BLS: and two coding systems; NAICS1997 and NAICS2002 (see the Census web site for more info.). Every NAICS variable uses at least one source and one coding system.

The ESO and FNL variables are of primary importance to the user community. The ESO variables use ONLY information from the ES202 and ignore any information that may be available on the LDB (see Section3.4.2 for some analysis on why this may be preferred). The FNL variables incorporate information from both the ES202 and the LDB, with the LDB being the dominant source. The ES_NAICS_FNL1997 and ES_NAICS_FNL2002 should be used to create the QWI estimates. Neither the ESO and the FNL variables contain missing values.

3.4.1 A note on naming conventions

The variable naming conventions used for internal LEHD files, from which the RDC version of the ECF is derived, stems from the early days of the LEHD program in 1999, and the ES-202 file layout at the time. Since then, the BLS and its partners have implemented a name change for NAICS-related variables (see ES-202 Technical Memorandum No. S-02-01):

- NAICS → NSTA (NAICS-SIC Treatment of Auxiliaries)
- AUXNAICS \rightarrow NAICS (official NAICS coding)

At LEHD, the internal ES202 variable naming scheme for NAICS/NAICS_AUX remains unchanged for compatibility reasons, and this naming scheme carries through into the ECF. Please keep this in mind while reading this document, and while using the ECF.

3.4.2 LDB versus LEHD NAICS backcoding

The LDB algorithm is to some extent a black box and testing has shown that it does a relatively poor job of capturing firm industry changes that occurred during the 1990's. In fact, the LDB appears to be a simple backfill that does not take into account a firm's entire SIC history.

Although some of the SIC changes over time may be spurious, a firm's SIC code history contains valuable information that we have attempted to preserve in our imputation algorithm. Overall, the effect of the different approaches is relatively small, since very few firms change industry, in particular relative to the proportion of firms that change geography.

In the following, we present a summary of research done on the ESO vs. FNL NAICS codes.

The NAICS_LDB variable is used for about 85% of the records for Illinois, the rest are filled with information from the ES202 (not sure why only 85% of the records on our ES202 files are in the LDB. The results weighted by employment are about the same suggesting that activity was not a criterion for being included on the LDB). First and not surprisingly, in later years and quarters (1999+) when NAICS is actively coded by the states, the codes look almost identical when available.

Second, there is little variation in the LDB NAICS codes over time compared with SIC. Among all of the active SEIN SEINUNITs over the period, a little over 8% experience at least one SIC change compared with about 1.5% on the LDB (almost all of these are 1999+). While this is not entirely unexpected, it is something to keep in mind when comparing NAICS_FNL versus SIC or NAICS_ESO employment totals. Many of these changes in industry appear to be real and are not captured on the LDB.

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One effect of this is that as we go back in time a larger portion of employment can be found in NAICS_FNL codes that are different than one would expect given the SIC code on the ECF. For example, in 1990 about 13% of employment is in a NAICS_FNL code that is different than what we would expect based on the SIC. By 2001 this number falls to 3%. The ES202 based NAICS variable does a better job tracking SIC, since more SIC information is used in putting it together (about 3% consistently over the period).

The main source of the discrepancy is due to entities that experience a change in their SIC code prior to 2000. The LDB appears to ignore this change, while the ESO NAICS variable uses an SIC based impute for these SEINUNITS. The result is a series that exhibits similar patterns of change over time as SIC, while still preserving the value added in the NAICS codes for entities that did not experience a change.

Also, users should keep in mind that for early years (¡1997) some of the NAICS industries have yet to come into existence. I have no estimates on the prevalence of this problem.

3.4.3 Variable List

Variable Name	Source	Notes
es_naics_aux1997	ES202 NAICS AUX variable	BLS coding of aux estabs
es_naics_aux1997_flag		
es_naics_aux1997_miss		
es_naics_aux1997_src		
es_naics_aux2002		
es_naics_aux2002_flag		
es_naics_aux2002_miss		
es_naics_aux2002_src		
es_naics_eso1997	ES202 NAICS AUX, NAICS, SIC	Only ES202 info used
es_naics_eso1997_miss		
es_naics_eso1997_src		
es_naics_eso2002		
es_naics_eso2002_miss		
es_naics_eso2002_src		
es_naics_fnl1997	BLS LDB and ESO Input vars.	All industry info used
$es_naics_fnl1997_2$		
es_naics_fnl1997_3		
$es_naics_fnl1997_4$		
es_naics_fnl1997_5		
es_naics_fnl1997_miss		
es_naics_fnl1997_src		
es_naics_fnl2002	BLS LDB and ESO input vars.	All industry info is used
es_naics_fnl2002_2		
es_naics_fnl2002_3		
es_naics_fnl2002_4		
es_naics_fnl2002_5		
es_naics_fnl2002_miss		
es_naics_fnl2002_src		
es_naics_imp1997	ES202 SIC code	Impute using only SIC
es_naics_imp1997_miss		
es_naics_imp1997_src		
es_naics_imp2002		
es_naics_imp2002_miss		
es_naics_imp2002_src		
es_naics_ldb1997	BLS LDB NAICS variable	

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Variable Name	Source	Notes
es_naics_ldb1997_flag		
es_naics_ldb1997_miss		
es_naics_ldb1997_src		
es_naics_ldb2002		
es_naics_ldb2002_flag		
es_naics_ldb2002_miss		
es_naics_ldb2002_src		
es_naics1997	ES202 NAICS Only	
es_naics1997_flag		
es_naics1997_miss		
es_naics1997_src		
es_naics2002		
es_naics2002_flag		
es_naics2002_miss		
es_naics2002_src		
mode_es_naics_eso1997	Mode of ESO SEINUNIT var	
mode_es_naics_eso1997_emp		
mode_es_naics_eso1997_emp_flag		
mode_es_naics_eso1997_emp_miss		
mode_es_naics_eso1997_flag		
mode_es_naics_eso1997_miss		
mode_es_naics_eso2002		
mode_es_naics_eso2002_emp		
mode_es_naics_eso2002_emp_flag		
mode_es_naics_eso2002_emp_miss		
mode_es_naics_eso2002_flag		
mode_es_naics_eso2002_miss		
mode_es_naics_fnl1997	Mode of FNL SEINUNIT var	
mode_es_naics_fnl1997_emp		
mode_es_naics_fnl1997_emp_flag		
mode_es_naics_fnl1997_emp_miss		
mode_es_naics_fnl1997_flag		
mode_es_naics_fnl1997_miss		
mode_es_naics_fnl2002		
mode_es_naics_fnl2002_emp		
mode_es_naics_fnl2002_emp_flag		
mode_es_naics_fnl2002_emp_miss		
mode_es_naics_fnl2002_flag		
mode_es_naics_fnl2002_miss		

3.4.4 Coding of MISS and SRC

Each new NAICS variable has several associated variables of which the miss and src variable are the most important.

3.4.4.1 MISS Variable Codes

If information from another period is used, the flag variable reports how many quarters away the NAICS value was found. Values greater than six should only appear in SEINUNIT level variables. If NAICS is

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missing for all quarters, then the SEINUNIT value has been filled with the SEIN value. The SEINUNIT codes represent the SEIN value +5.

Table 3.7: MISS Variable Codes

- 0 Valid value available in that period
- 1 Missing
- 1.5 (1999 and earlier only) Filled using impute based on SIC due to an SIC change over the period.
 - 2 Filled using own code from another period
 - 3 Filled from another source contemporaneously =
 - Filled using the non-employ weight mode (SEIN mode var only) 5
 - 6 Unconditionally imputed (SEIN mode var only)
 - 6 NAICS imputed using SIC unconditional impute (SEIN mode var
 - Filled using the SEIN mode from another period (sic, fnl and eso vars only)
- 11 Filled using unconditional impute of SEIN value (sic, fnl and eso vars only)

3.4.4.2 SRC Variable Codes

The ESO and FNL variables use the following source codes. If more detail is desired about the source of the NAICS code, the user must look to the SRC code for that source. For example, if the ESO source code for ES_NAICS_ESO1997 says NCS, then the actual SRC information will be found in ES_NAICS1997_SRC.

Table 3.8: SRC Variable: ESO, FNL

- AUX Source is the ES202 NAICS AUX variable
- Source is the LDB NAICS variable LDB NCS Source is the ES202 NAICS variable
- Source is the ES202 SIC code SIC

The AUX, LDB and standard NAICS codes have the following source variables.

Table 3.9: SRC Variable: AUX, LDB, NAICS

SICSource is the ES202 SIC code NO2Source is a NAICS 2002 Code Source is a NAICS 1997 Code N97

3.4.5 NAICS algorithm precedence ordering

Four basic sources of industry information are available on the ECF; NAICS, NAICS_AUX, SIC, and the NAICS_LDB. The NAICS, NAICS_AUX, and NAICS_LDB missing values were filled using the following preference ordering. SIC is filled similarly, except miss=1.5 is not used and NAICS, not SIC, would be the basis for the impute when miss=3.

1. Valid 6 digit industry code (miss=0)

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- 2. Imputed code based on first 3,4, or 5 digits when no valid six digit code is available in another period (miss=0)
- 3. Imputed code based on contemporaneous SIC if SIC changed prior to 2000 (miss=1.5)
- 4. Valid 6 digit code from another period (miss=2)
- 5. Valid code from another source (for example if NAICS1997 is missing, NAICS2002 or SIC may be available) (miss=3)
- 6. Use SEIN mode value (miss=5,7)
- 7. Unconditional impute (miss=6,11)

3.4.6 ESO and FNL variables

The ESO and FNL variables are made up of combinations of the various sources of industry information. The ESO variable uses the NAICS and NAICS_AUX variables as input. Information from the variable with the lowest MISS value is preferred although in case of a tie the NAICS_AUX value is used.

The FNL variable uses the ESO and LDB variables. Information from the variable with the lowest MISS value is preferred although in case of a tie the NAICS_LDB value is used. Keep in mind that although the source of an ESO or FNL variable may be equal to NCS, the actual source can only be ascertained by going back to the original.

3.4.7 Employment Flag Variable Codes

All current uses of the ECF have been forced to assume that employment and payroll information has been reported by the firm, although under certain conditions the ES202 processing specifications require imputation of missing values. The flag values below allow the user to determine when imputation has occurred.

The master record contains valuable information that has been preserved in the master_empl_month1_flg -master_total_wages_flg variables. For example, one should theoretically be able to distinguish 0 prorated codes from 0 unknowns by looking at multi units with masters that reported (code=1) and subunits with a zero

The following information stems from an email exchange between Kevin McKinney (U.S. Census Bureau) and George Putnam (Illinois) on 12/15/2003.

Employment Flag Variable Codes Prior to late 1995:

0 = unknown

1 = not imputed

2 = imputed (including prorated multiple worksite data)

Late 1995 or early 1996:

0 = prorated data (multiple worksites)

1 = actual or not imputed data

2 = estimated data

1997 first quarter forward (ES202 processing manual, Appendix B):

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Blankreported data

Rreported data =

estimated from CES report A

Cchanged (re-reported)

Dreported from missing data notice

Eimputed single unit employment or imputed worksite employment

prorated from imputed parent record

hand-imputed (not system generated) Η

= late reported (overrides prior imputation)

Mmissing data =

N zero-filled pending resolution of long-term delinquent reporter

Pprorated from reported master to worksite

Saggregated master from reported MWR or EDI data

Westimated from wage record employment

X non-numeric employment zero-filled pending further action

3.4.8 Multi-Unit Code or MEEI

The MULTI-UNIT variable on the ECF is determined by counting the number of SEINUNIT records for a given SEIN once the master records have been removed. However, some multiunit firms refuse to report detailed information for their sub-units and appear as single units on the ECF. The table below provides an estimate of the magnitude of multiunit firms refusing to report detailed unit information using data from Illinois.

MU	LT.	I_U	IN.	Γ	
	1				

MULTI_UNIT_CODE	0	1
1	1,483,808	0
2	1	0
3	120	155859
4	5808	0
5	0	33
6	13899	0

Prior to 1997 (ES202 processing manual sent from George Putnam):

1 Single establishment unit

2 Multi-unit master record

3 Subunit establishment level record for a multi-unit employer

Multi-establishment employer reporting as a single unit due to 4 unavailability of data, including refusals

A subunit record that actually represents a combination of estab-5 lishments; finer level breakouts are not yet available

Known multi establishment employer reporting as a single unit and not solicited for disaggregation because of small employment (< 10) in all secondary establishments combined

1997 first quarter forward (ES202 processing manual, Appendix B):

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- 1 = Single establishment unit
- 2 = Multi-unit master record
- 3 = Subunit establishment level record for a multi-unit employer
- 4 = Multi-establishment employer reporting as a single unit due to unavailability of data, including refusals
- 5 = A subunit record that actually represents a combination of establishments; finer level breakouts are not yet available
- 6 = Known multi establishment employer reporting as a single unit and not solicited for disaggregation because of small employment (; 10) in all secondary establishments combined

3.4.9 Auxiliary Code

This variable gives detailed information about firm locations that do not directly engage in production related activities.

Prior to 1997 (ES202 processing manual sent from George Putnam):

- 0 = Unknown
- 1 = Central administrative office
- 2 = Performs research, development or testing services
- 3 = Provides storage or warehouse services
- 5 Does not provide auxiliary services, it is an operating establishment
- 9 = Performs auxiliary services that are not described above

1997 first quarter forward (ES202 processing manual, Appendix B):

- 0 = Auxiliary status not known
- 1 = Central administrative office
- 2 = Performs research, development or testing services
- 3 = Provides storage or warehouse services
- 5 Does not provide auxiliary services, it is an operating establishment
- 6 = Headquarters
- 7 = Administrative, Other than Headquarters
- 9 = Performs auxiliary services that are not described above

$\overline{3.4.10}$ Summary information on datasets

Table 3.10: Number of observations for ECF

	Number of	Records	Filesize
Group	datafiles	(1000s)	(GB)
ECF	188	1,835,400	420

Table 3.11: List of data files for ECF, by state

File name	StartYQ End	IYQ Obs. (1000s)	Size (GB)	
	Sort order			
Alaska (ak)				
ecf_{ak} sein	2000Q1 200	8Q4 700	< 5	
	sein year qua	rter		
ecf_ak_sein_aux		8Q4 700	< 5	
	sein year qua	rter		
ecf_ak_seinunit		8Q4 800	< 5	
	sein seinunit	year quarter		
ecf_ak_seinunit_aux		8Q4 800	< 5	
	sein seinunit	•		
Alabama (al)		0 1		
ecf_al_sein	2001Q1 200	8Q4 3,400	< 5	
00120120111	sein year qua	-		
ecf_al_sein_aux		8Q4 3,400	< 5	
	sein year qua	• ,		
ecf_al_seinunit		8Q4 4,500	< 5	
cer_ar_semani	sein seinunit	•	\ 0	
ecf_al_seinunit_aux		8Q4 4,500	< 5	
cci_ai_5ciiiaiii0_aax	sein seinunit	•	< 0	
Arkansas (ar)	Scott Scottwict	gear quarter		
ecf_ar_sein	2002Q3 200	8Q4 1,700	< 5	
ect_at_sem	sein year qua	•	< 0	
ecf_ar_sein_aux		8Q4 1,700	< 5	
ect_at_sem_aux	sein year qua	,	< 0	
ecf_ar_seinunit		8Q4 2,100	< 5	
eci_ai_semunit	sein seinunit	•	< 0	
ecf_ar_seinunit_aux		$\frac{year\ quarter}{8Q4}$ 2,100	< 5	
eci_ai_semumi_aux			< 0	
A · ()	sein seinunit	year quarter		
Arizona (az)	000401 000	004 0.700		
ecf_az_sein	•	8Q4 2,700	< 5	
	sein year qua			
ecf_az_sein_aux	•	8Q4 2,700	< 5	
	sein year qua			
ecf_az_seinunit	•	8Q4 3,000	< 5	
·	sein seinunit			
ecf_az_seinunit_aux	•	8Q4 3,000	< 5	
	sein seinunit	year quarter		
California (ca)				
ecf_ca_sein	1991Q1 200	8Q4 70,400	20	
			(cont)

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Filo name	Table 3.11 – (Sign (CD)	
File name		Obs. (1000s)	Size (GB)	
	Sort order			
	sein year quarter			
ecf_ca_sein_aux	1991Q1 2008Q4		5	
	sein year quarter			
$ecf_ca_seinunit$	1991Q1 2008Q4	,	25	
	sein seinunit yea			
ecf_ca_seinunit_aux	1991Q1 2008Q4	,	20	
	sein seinunit yea	r $quarter$		
Colorado (co)				
ecf_co_sein	1990Q1 2008Q4	9,500	< 5	
	sein year quarter			
ecf_co_sein_aux	1990Q1 2008Q4		< 5	
	sein year quarter	,		
ecf_co_seinunit	1990Q1 2008Q4		< 5	
	sein seinunit yea			
ecf_co_seinunit_aux	1990Q1 2008Q4		< 5	
cci_co_scinamiv_aax	sein seinunit yea	,	\ 0	
Delaware (de)	ocin ocinanii yea	quarici		
ecf_de_sein	1997Q1 2008Q4	1,200	< 5	
eci_de_sein	•		< 0	
<u> </u>	sein year quarter			
ecf_de_sein_aux	1997Q1 2008Q4	,	< 5	
	sein year quarter			
ecf_de_seinunit	1997Q1 2008Q4	,	< 5	
	sein seinunit yea			
ecf_de_seinunit_aux	1997Q1 2008Q4	1,300	< 5	
	sein seinunit yea	r $quarter$		
Florida (fl)				
ecf_fl_sein	1989Q1 2008Q4	31,100	10	
	sein year quarter			
ecf_fl_sein_aux	1989Q1 2008Q4		< 5	
	sein year quarter	,		
ecf_fl_seinunit	1989Q1 2008Q4		10	
o or are a contracting	sein seinunit yea	,		
ecf_fl_seinunit_aux	1989Q1 2008Q4		10	
cer_m_bemame_aax	sein seinunit yea	,	10	
Georgia (ga)	ocin ocinanii yea	quarici		
	1998Q1 2008Q4	0 000	< 5	
ecf_ga_sein	·	,	< 0	
	sein year quarter			
ecf_ga_sein_aux	1998Q1 2008Q4	,	< 5	
	sein year quarter			
ecf_ga_seinunit	1998Q1 2008Q4	,	< 5	
	sein seinunit yea			
ecf_ga_seinunit_aux	1998Q1 2008Q4	10,900	< 5	
	sein seinunit yea	r $quarter$		
Hawaii (hi)				
ecf_hi_sein	1995Q4 2008Q4	1,600	< 5	
	sein year quarter			
ecf_hi_sein_aux	1995Q4 2008Q4		< 5	
Joint Dolli Wan	sein year quarter	,	\ 0	
	scon your quarter			(cont

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	Table	3.11 – Co	ontinued		
File name	StartYQ	EndYQ		Size (GB)	
	Sort order		0.55. (20005)	- SILC (GL)	
ecf_hi_seinunit	1995Q4	2008Q4	1,900	< 5	
cer_m_semamo		unit year	· · · · · · · · · · · · · · · · · · ·	< 0	
oof hi goinneit and				< 5	
ecf_hi_seinunit_aux	1995Q4	2008Q4	1,900	< 9	
- T	sein sein	unit year	quarter		
Iowa (ia)				_	
ecf_ia_sein	1990Q1	2008Q4	5,300	< 5	
	sein year				
ecf_ia_sein_aux	1990Q1	2008Q4	5,300	< 5	
	sein year	quarter			
ecf_ia_seinunit	1990Q1	2008Q4	6,900	< 5	
	sein sein	unit year	quarter		
ecf_ia_seinunit_aux	1990Q1	2008Q4	6,900	< 5	
		unit year			
Idaho (id)	223.0 33010	godi	<u> </u>		
ecf_id_sein	1991Q1	2008Q4	2,800	< 5	
eci_id_sem	•	-	2,000	< 0	
· · · · ·	sein year		0.000		
ecf_id_sein_aux	1991Q1	2008Q4	2,800	< 5	
	sein year	_			
ecf_id_seinunit	1991Q1	2008Q4	3,300	< 5	
		unit year			
ecf_id_seinunit_aux	1991Q1	2008Q4	3,300	< 5	
	sein sein	unit year	quarter		
Illinois (il)					
ecf_il_sein	1990Q1	2008Q4	23,400	5	
	sein year	-	,		
ecf_il_sein_aux	1990Q1	2008Q4	23,400	< 5	
001_11_50111_60111	sein year	•	-5,100		
ecf_il_seinunit	1990Q1	2008Q4	25,600	10	
eci_ii_semunit		•	· · · · · · · · · · · · · · · · · · ·	10	
ecf_il_seinunit_aux		unit year			
eci_ii_seinunit_aux	1990Q1	2008Q4	25,600	5	
	sein sein	unit year	quarter		
Indiana (in)	_	_			
ecf_{in_sein}	1998Q1	2008Q4	5,700	< 5	
	sein year	quarter			
ecf_in_sein_aux	1998Q1	2008Q4	5,700	< 5	
	sein year	quarter			
ecf_in_seinunit	1998Q1	2008Q4	6,800	< 5	
	sein sein	unit year			
ecf_in_seinunit_aux	1998Q1	2008Q4	6,800	< 5	
	•	unit year			
Kansas (ks)	00000	artite gour	quarter		
ecf_ks_sein	1990Q1	2008Q4	5,200	< 5	
CCI_V2_2CIII	-		5,200	< 0	
<u> </u>	sein year		F 000		
ecf_ks_sein_aux	1990Q1	2008Q4	5,200	< 5	
	sein year	_			
ecf_ks_seinunit	1990Q1	2008Q4	6,100	< 5	
	sein sein	unit year	quarter		
ecf_ks_seinunit_aux	1990Q1	2008Q4	6,100	< 5	
					(cont)
					` /

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CHAPTER 3. EMPLOYER CHARACTERISTICS FILE (ECF)

Start VQ End VQ Obs. (1000s) Size (GB)	o. Emi Lo i En Cimi		3.11 – Ce	,		
Sort order sein seinunit year quarter	File name				Size (GB)	
Control Cont				,		
Control Cont		sein sein	nunit year	quarter		
Cef.ky.sein	Kentucky (ky)			-		
Sein year quarter 2001Q1 2008Q4 2,900 < 5	,	2001Q1	2008Q4	2,900	< 5	
ecf.ky_sein_aux 2001Q1 2008Q4 2,900 < 5 ecf.ky_seinunit 2001Q1 2008Q4 3,500 < 5 sein seinunit year quarter ecf.ky_seinunit_aux 2001Q1 2008Q4 3,500 < 5 cef.ky_seinunit_aux 2001Q1 2008Q4 3,500 < 5 sein seinunit year quarter ecf.la_sein 1990Q1 2008Q4 7,000 < 5 ecf.la_sein_aux 1990Q1 2008Q4 7,000 < 5 sein year quarter ecf.la_seinunit 1990Q1 2008Q4 8,500 < 5 sein seinunit year quarter ecf.la_seinunit_aux 1990Q1 2008Q4 8,500 < 5 sein seinunit year quarter ecf.md_sein_aux 1990Q1 2008Q4 9,900 < 5 ecf.md_sein_aux 1990Q1 2008Q4 9,900 < 5 sein year quarter ecf.md_seinunit_aux 1990Q1 2008Q4 11,100 < 5 sein seinunit year quarter ecf.me.sein_aux 1990Q1 2008Q4 2,300 < 5	· ·	-	-	,		
	ecf_kv_sein_aux			2,900	< 5	
ecf.ky_seinunit 2001Q1 2008Q4 3,500 < 5	J	-	-	_,000		
	ecf ky seinunit			3.500	< 5	
Coches Company Compa	ooinij bollidili	-	-	,		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ecf ky seinunit aux				< 5	
Louisiana (la) ecf_la_sein 1990Q1 2008Q4 7,000 < 5 sein year quarter ecf_la_sein_aux 1990Q1 2008Q4 7,000 < 5 sein year quarter ecf_la_seinunit 1990Q1 2008Q4 8,500 < 5 sein seinunit year quarter ecf_la_seinunit_aux 1990Q1 2008Q4 8,500 < 5 sein seinunit_year quarter ecf_la_seinunit_aux 1990Q1 2008Q4 8,500 < 5 sein seinunit_year quarter ecf_lmd_sein 1990Q1 2008Q4 9,900 < 5 sein year quarter ecf_lmd_sein_aux 1990Q1 2008Q4 9,900 < 5 sein year quarter ecf_lmd_seinunit_1 1990Q1 2008Q4 11,100 < 5 sein seinunit_year quarter ecf_lmd_seinunit_aux 1990Q1 2008Q4 11,100 < 5 sein seinunit_year quarter ecf_lmd_seinunit_aux 1990Q1 2008Q4 2,300 < 5 sein year quarter ecf_lme_sein_aux 1996Q1 2008Q4 2,300 < 5 sein year quarter ecf_lme_sein_aux 1996Q1 2008Q4 2,700 < 5 sein year quarter ecf_lme_seinunit_aux 1996Q1 2008Q4 2,700 < 5 sein seinunit_year quarter ecf_lme_seinunit_aux 1996Q1 2008Q4 2,700 < 5 sein seinunit_year quarter ecf_lmi_sein_aux 1998Q1 2008Q4 10,700 < 5 sein year quarter ecf_lmi_sein_aux 1998Q1 2008Q4 10,700 < 5 sein year quarter ecf_lmi_sein_aux 1998Q1 2008Q4 12,100 < 5 sein seinunit_year quarter ecf_lmi_seinunit_aux 1998Q1 2008Q4 12,100 < 5 sein seinunit_year quarter ecf_lmi_sein_unit_aux 1998Q1 2008Q4 12,100 < 5 sein seinunit_year quarter ecf_lmi_seinunit_aux 1998Q1 2008Q4 12,100 < 5	ooinij bollidili o	-	•			
ecf_la_sein 1990Q1 2008Q4 7,000 < 5 ecf_la_sein_aux 1990Q1 2008Q4 7,000 < 5	Louisiana (la)		tarre gear	quarter		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1990⊖1	200804	7 000	< 5	
ecf_la_sein_aux 1990Q1 2008Q4 7,000 < 5 ecf_la_seinunit 1990Q1 2008Q4 8,500 < 5	CCI_Ia_SCIII	-	-	1,000	< 0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	oof la soin aux			7 000		
ecf_la_seinunit 1990Q1 2008Q4 8,500 < 5 sein seinunit year quarter ecf_la_seinunit_aux 1990Q1 2008Q4 8,500 < 5	eci_ia_seiii_aux	•	•	7,000	< 0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	oef la coinunit			0 500		
ecf_la_seinunit_aux 1990Q1 2008Q4 8,500 Maryland (md) ecf_md_sein 1990Q1 2008Q4 9,900 < 5	eci_ia_semunit	•	•	,	< 0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	C1 : ::					
Maryland (md) ecf_md_sein 1990Q1 2008Q4 9,900 < 5	eci_la_seinunit_aux	-	-		< 5	
ecf_md_sein 1990Q1 2008Q4 9,900 < 5 ecf_md_sein_aux 1990Q1 2008Q4 9,900 < 5	25 1 1 (1)	sein sein	iunit year	quarter		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
ecf_md_sein_aux 1990Q1 2008Q4 9,900 < 5	$\operatorname{ecf_md_sein}$	•	•	9,900	< 5	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
ecf_md_seinunit 1990Q1 2008Q4 11,100 < 5	$ecf_md_sein_aux$	-	-	9,900	< 5	
sein seinunit year quarter ecf_md_seinunit_aux 1990Q1 2008Q4 11,100 < 5						
Recf.md_seinunit_aux	$ecf_md_seinunit$	-	-		< 5	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ecf_md_seinunit_aux	1990Q1	2008Q4	11,100	< 5	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		sein sein	nunit year	quarter		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Maine (me)					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1996Q1	2008Q4	2,300	< 5	
ecf_me_sein_aux 1996Q1 2008Q4 2,300 < 5 ecf_me_seinunit 1996Q1 2008Q4 2,700 < 5		-	-	,		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ecf_me_sein_aux			2,300	< 5	
ecf_me_seinunit 1996Q1 2008Q4 2,700 < 5 sein seinunit year quarter 1996Q1 2008Q4 2,700 < 5		-	-	,		
sein seinunit year quarter ecf_me_seinunit_aux 1996Q1 2008Q4 2,700 < 5	ecf me seinunit			2.700	< 5	
ecf_me_seinunit_aux 1996Q1 2008Q4 2,700 < 5 Michigan (mi) ecf_mi_sein 1998Q1 2008Q4 10,700 < 5		•	-			
sein seinunit year quarter Michigan (mi) 1998Q1 2008Q4 10,700 < 5	ecf me seinunit aux				< 5	
Michigan (mi) ecf_mi_sein		•	•	,	~ ~	
ecf_mi_sein 1998Q1 2008Q4 10,700 < 5	Michigan (mi)		tarrir gear	quarter		
		100801	200804	10.700	~ 5	
ecf_mi_sein_aux 1998Q1 2008Q4 10,700 < 5	eci_mi_sem	-	-	10,700	< 0	
	aaf mi gain ayy		_	10.700		
ecf_mi_seinunit 1998Q1 2008Q4 12,100	eci_iiii_selii_aux	•	•	10,700	< 0	
	:: ·			10 100		
ecf_mi_seinunit_aux 1998Q1 2008Q4 12,100 < 5	eci_mi_semunit	•	•		< 5	
sein seinunit year quarter Minnesota (mn) ecf_mn_sein 1994Q3 2008Q4 8,100 < 5						
Minnesota (mn) ecf_mn_sein 1994Q3 2008Q4 8,100 < 5	ect_mi_seinunit_aux	•	•		< 5	
ecf_mn_sein 1994Q3 2008Q4 8,100 < 5		sein sein	nunit year	quarter		
· · · · · · · · · · · · · · · · · · ·						
(cont	ecf_mn_sein	1994Q3	2008Q4	8,100	< 5	
						(cont)

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		3.11 – C		(2)	
File name		EndYQ	Obs. (1000s)	Size (GB)	
	Sort order				
	sein year				
ecf_mn_sein_aux	1994Q3	2008Q4	8,100	< 5	
	sein year	quarter			
ecf_mn_seinunit	1994Q3		9,900	< 5	
	sein sein	•	,		
ecf_mn_seinunit_aux	1994Q3		9,900	< 5	
cer_mm_semamo_aax	sein sein	•	,	\ 0	
Missouri (mo)	30111 30111	ann year	quarici		
	100001	000001	11 200		
ecf_{mo} sein	1990Q1	2008Q4	11,300	< 5	
	sein year				
ecf_mo_sein_aux	1990Q1	2008Q4	11,300	< 5	
	sein year				
ecf_mo_seinunit	1990Q1	2008Q4	13,500	< 5	
	$sein \ sein$	unit year	quarter		
ecf_mo_seinunit_aux	1990Q1	2008Q4	13,500	< 5	
	sein sein	unit year	quarter		
Mississippi (ms)			1		
ecf_ms_sein	2003Q3	2008Q4	1,200	< 5	
CC1_IIIS_SCIII	sein year		1,200	< 0	
ecf_ms_sein_aux	$\frac{\text{sein year}}{2003\text{Q3}}$	2008Q4	1,200	< 5	
eci_ms_sem_aux	•	•	1,200	< 9	
	sein year		4 700		
ecf_ms_seinunit	2003Q3	•	1,500	< 5	
	sein sein				
ecf_ms_seinunit_aux	2003Q3		1,500	< 5	
	sein sein	unit year	quarter		
Montana (mt)					
$\operatorname{ecf_mt_sein}$	1993Q1	2008Q4	2,200	< 5	
	sein year	quarter			
ecf_mt_sein_aux	1993Q1	2008Q4	2,200	< 5	
	sein year	quarter			
ecf_mt_seinunit	1993Q1		2,500	< 5	
	sein sein	•	,		
ecf_mt_seinunit_aux	1993Q1	2008Q4	2,500	< 5	
cci_mii_scmamii_aax	sein sein	•		< 0	
North Concline (no.)	3CH 3CH	with year	quariei		
North Carolina (nc)	100001	000001	10.700		
ecf_nc_sein	1990Q1	2008Q1	13,700	< 5	
	sein year				
$ecf_nc_sein_aux$	1990Q1	2008Q1	13,700	< 5	
	sein year				
ecf_nc_seinunit	1990Q1	2008Q1	16,900	< 5	
	sein sein	unit year	quarter		
ecf_nc_seinunit_aux	1990Q1	2008Q1	16,900	< 5	
	sein sein	•			
North Dakota (nd)		<u> </u>	*		
ecf_nd_sein	1998Q1	2008Q4	900	< 5	
COLLING_DOIN	-	-	300	< 0	
a of md a	sein year		000	< 5	
$ecf_nd_sein_aux$	1998Q1	2008Q4	900	< 5	
	sein year	quarter			
					(cont)

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CHAPTER 3. EMPLOYER CHARACTERISTICS FILE (ECF)

File name	StartYQ	3.11 – Co	Obs. (1000s)	Size (GB)	
rue name			Obs. (1000s)	Size (GB)	
asf nd asimunit	Sort order		1 100	< 5	
ecf_nd_seinunit	1998Q1	2008Q4	1,100	< 5	
C 1::-		unit year		< 5	
ecf_nd_seinunit_aux	1998Q1	2008Q4	1,100	< 5	
11 ()	sein sein	unit year	quarier		
ebraska (ne)	100001	200204	1 000		
ecf_ne_sein	1999Q1	2008Q4	1,900	< 5	
ecf_ne_sein_aux	sein year		1 000	< 5	
	1999Q1	2008Q4	1,900	< 5	
ecf_ne_seinunit	sein year		0.000	< 5	
eci_ne_semunit	1999Q1	2008Q4	2,200	< 5	
C:		unit year			
ecf_ne_seinunit_aux	1999Q1	2008Q4	2,200	< 5	
T (•)	sein sein	unit year	quarter		
ew Jersey (nj)	100501	200204	14.400		
ecf_nj_sein	1995Q1	2008Q4	14,400	< 5	
	sein year		1.1.100		
ecf_nj_sein_aux	1995Q1	2008Q4	14,400	< 5	
	sein year		10000		
ecf_nj_seinunit	1995Q1	2008Q4	16,000	< 5	
		unit year			
ecf_nj_seinunit_aux	1995Q1	2008Q4	16,000	< 5	
3.5	sein sein	unit year	quarter		
ew Mexico (nm)	100001	200004	2.100	_	
ecf_nm_sein ecf_nm_sein_aux	1990Q1	2008Q4	3,100	< 5	
	sein year		2.100		
	1990Q1	2008Q4	3,100	< 5	
	sein year				
ecf_nm_seinunit	1990Q1	2008Q4	3,600	< 5	
		unit year			
$ecf_nm_seinunit_aux$	1990Q1	2008Q4	3,600	< 5	
	sein sein	unit year	quarter		
evada (nv)	100-0:				
ecf_nv_sein	1998Q1	2008Q4	2,300	< 5	
	sein year				
ecf_nv_sein_aux	1998Q1	2008Q4	2,300	< 5	
	sein year				
ecf_nv_seinunit	1998Q1	2008Q4	2,700	< 5	
		unit year			
ecf_nv_seinunit_aux	1998Q1	2008Q4	2,700	< 5	
	sein sein	unit year	quarter		
ew York (ny)					
ecf_ny_sein	1990Q1	2008Q4	36,300	10	
	sein year	quarter			
ecf_ny_sein_aux	1990Q1	2008Q4	36,300	< 5	
	sein year	quarter			
ecf_ny_seinunit	1990Q1	2008Q4	40,400	10	
•	sein sein	unit year			
ecf_ny_seinunit_aux	1990Q1	2008Q4	40,400	10	

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	Table	3.11 - Co	ontinued		
File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)	
	Sort order	Liidit	000. (10000)	Size (GD)	
	sein sein	unit waar	auanton		
Ol-:- (-l-)	sem sem	ann year	quarter		
Ohio (oh)	200001	2000004	0.400	. •	
ecf_oh_sein	2000Q1	2008Q4	8,400	< 5	
	sein year				
$ecf_oh_sein_aux$	2000Q1	2008Q4	8,400	< 5	
	sein year	quarter			
ecf_oh_seinunit	2000Q1	2008Q4	10,500	< 5	
	sein sein	unit year	quarter		
ecf_oh_seinunit_aux	2000Q1	2008Q4	10,500	< 5	
	sein sein	•	auarter		
Oklahoma (ok)	30000	arree gour	quartor		
ecf_ok_sein	1999Q1	2008Q4	3,300	< 5	
ect_ok_sem	•	_	3,300	< 0	
	sein year		2 200	< 5	
ecf_ok_sein_aux	1999Q1	2008Q4	3,300	< 5	
	sein year	-			
$ecf_ok_seinunit$	1999Q1	2008Q4	3,900	< 5	
	sein sein		-		
ecf_ok_seinunit_aux	1999Q1	2008Q4	3,900	< 5	
	sein sein	unit year	quarter		
Oregon (or)		-			
ecf_or_sein	1990Q1	2008Q4	7,300	< 5	
	sein year	_	.,		
ecf_or_sein_aux	1990Q1	2008Q4	7,300	< 5	
corlor_som_aax	sein year	•	1,900	\ 0	
ecf_or_seinunit	1990Q1	-	8,300	< 5	
ect_or_semumt	•	•	,	< 0	
	sein sein				
ecf_or_seinunit_aux	1990Q1	•	8,300	< 5	
	sein sein	unit year	quarter		
Pennsylvania (pa)					
ecf_pa_sein	1991Q1	2008Q4	19,200	< 5	
	sein year	quarter			
ecf_pa_sein_aux	1991Q1	2008Q4	19,200	< 5	
	sein year	quarter			
ecf_pa_seinunit	1991Q1	2008Q4	22,600	5	
- F	sein sein	•	· · · · · · · · · · · · · · · · · · ·		
ecf_pa_seinunit_aux	1991Q1	2008Q4	22,600	5	
cer_pa_semame_aax	sein sein	•		0	
Dhada Island (vi)	30111 30111	ann year	quarici		
Rhode Island (ri)	100001	20000 4	0.400		
ecf_ri_sein	1990Q1	2008Q4	2,400	< 5	
	sein year	•	2.100		
ecf_ri_sein_aux	1990Q1	2008Q4	2,400	< 5	
	sein year				
ecf_ri_seinunit	1990Q1	2008Q4	2,600	< 5	
	sein sein	unit year	quarter		
ecf_ri_seinunit_aux	1990Q1	2008Q4	2,600	< 5	
	sein sein	unit year	· · · · · · · · · · · · · · · · · · ·		
South Carolina (sc)			-		
ecf_sc_sein	1998Q1	2008Q4	4,500	< 5	
			1,000		(cont)
					(00110)

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 $\underline{\textit{CHAPTER 3.}} \ \ \underline{\textit{EMPLOYER CHARACTERISTICS FILE (ECF)}}$

File name	Table 3 StartYQ I		Obs. (1000s)	Size (GB)	
	Sort order		()		
	sein year	quarter			
ecf_sc_sein_aux	1998Q1 2		4,500	< 5	
	sein year		,		
ecf_sc_seinunit		2008Q4	5,100	< 5	
	sein seinu	-			
ecf_sc_seinunit_aux	1998Q1 2		5,100	< 5	
	sein seinu	-			
South Dakota (sd)					
ecf_sd_sein	1998Q1 2	2008Q4	1,000	< 5	
	sein year		,		
ecf_sd_sein_aux	1998Q1 2		1,000	< 5	
	sein year	-	,		
ecf_sd_seinunit	1998Q1 2		1,300	< 5	
	sein seinu				
ecf_sd_seinunit_aux	1998Q1 2		1,300	< 5	
	sein seinu	-			
Tennessee (tn)		9	1		
ecf_tn_sein	1998Q1 2	2008Q4	5,600	< 5	
0012011200111	sein year		3,000		
ecf_tn_sein_aux	1998Q1 2		5,600	< 5	
CCI_UII_DCIII_WdX	sein year	-	0,000	\ 0	
ecf_tn_seinunit	1998Q1 2		6,500	< 5	
cci_oii_bciiiaiii	sein seinu	-		\ 0	
ecf_tn_seinunit_aux	1998Q1 2		6,500	< 5	
	sein seinu	-		\ \	
Texas (tx)		ittt gaar	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
ecf_tx_sein	1990Q1 2	2008Q4	30,700	5	
0012011200111	sein year	-	30,100	Ŭ	
ecf_tx_sein_aux		2008Q4	30,700	< 5	
CCI_UX_BCIII_&UX	sein year	•	30,100	< 0	
ecf_tx_seinunit	1990Q1 2		38,100	10	
CCI_0X_5CIIIdIII0	sein seinu	-		10	
ecf_tx_seinunit_aux		2008Q4	38,100	10	
CCI_0X_5CIIIdIII0_ddX	sein seinu	•		10	
Utah (ut)	30111 30111W	www year	quarier		
ecf_ut_sein	1990Q1 2	2008Q4	3,900	< 5	
eci_ut_seiii	sein year	-	3,900	< 0	
ecf_ut_sein_aux		$\frac{quarter}{2008Q4}$	3,900	< 5	
eci_ut_seiii_aux	•	•	3,900	< 0	
ecf_ut_seinunit	sein year o	2008Q4	4,900	< 5	
eci_ut_semumt	•	•		< 0	
ecf_ut_seinunit_aux	sein seinu 1990Q1	2008Q4	4,900	< 5	
eci_ut_semumt_aux	•	•		< 0	
Tinginia ()	sein seinu	nn year	<i>quarter</i>		
Virginia (va)	100500	20000 4	0.700		
ecf_va_sein	•	2008Q4	8,700	< 5	
	sein year				
$ecf_va_sein_aux$	_	2008Q4	8,700	< 5	
	sein year e	quarter			

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		3.11 – Co			
File name		EndYQ	Obs. $(1000s)$	Size (GB)	
	Sort order	,			
ecf_va_seinunit	1995Q3	2008Q4	10,600	< 5	
	sein sein	unit year	quarter		
ecf_va_seinunit_aux	1995Q3	2008Q4	10,600	< 5	
	•	unit year	,		
Vermont (vt)	5000 5000	tanti gcar	quarter		
	200001	200204	200		
ecf_vt_sein	2000Q1	2008Q4	800	< 5	
		r quarter			
ecf_vt_sein_aux	2000Q1	2008Q4	800	< 5	
	sein year	r quarter			
ecf_vt_seinunit	2000Q1	2008Q4	900	< 5	
	sein sein	nunit year	auarter		
ecf_vt_seinunit_aux	2000Q1	2008Q4	900	< 5	
	•	$unit\ year$		\ 0	
W 1: 4 ()	30111 3011	iann gear	quarter		
Washington (wa)	100001	20000	10.000		
ecf_wa_sein	1990Q1	2008Q4	13,600	< 5	
		r quarter			
ecf_wa_sein_aux	1990Q1	2008Q4	13,600	< 5	
	sein year	r quarter			
ecf_wa_seinunit	1990Q1	2008Q4	15,000	< 5	
oct was ciliani		unit year			
ecf_wa_seinunit_aux	1990Q1	$\frac{2008Q4}{2008Q4}$	15,000	< 5	
eci_wa_semumit_aux	•	•	,	< 0	
	sein sein	nunit year	quarter		
Wisconsin (wi)					
ecf_wi_sein	1990Q1	2008Q4	9,700	< 5	
	sein year	r quarter			
ecf_wi_sein_aux	1990Q1	2008Q4	9,700	< 5	
	-	r quarter	,		
ecf_wi_seinunit	1990Q1		11,100	< 5	
cci_wi_scinding	•	$unit\ year$		< 0	
· · · · · · · · · · · · · · · · · · ·					
ecf_wi_seinunit_aux	1990Q1		11,100	< 5	
	sein sein	unit year	quarter		
West Virginia (wv)					
$\operatorname{ecf_wv_sein}$	1990Q1	2008Q4	3,000	< 5	
	sein uea	r quarter			
ecf_wv_sein_aux	1990Q1	2008Q4	3,000	< 5	
cci_w v _sciii_aux	-	-	3,000	< 0	
· · · · ·		r quarter	2.700		
$ecf_wv_seinunit$	1990Q1	2008Q4	3,700	< 5	
		unit year			
ecf_wv_seinunit_aux	1990Q1	2008Q4	3,700	< 5	
	sein sein	unit year	quarter		
Wyoming (wy)					
ecf_wy_sein	2001Q1	2008Q4	700	< 5	
001_W y _00111	-	r quarter	100	< 0	
C			700		
$ecf_wy_sein_aux$	2001Q1	2008Q4	700	< 5	
		r quarter			
ecf_wy_seinunit	2001Q1	2008Q4	700	< 5	
	sein sein	unit year	quarter		
ecf_wy_seinunit_aux	2001Q1	2008Q4	700	< 5	
			.00	\ \ \	

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CHAPTER 3. EMPLOYER CHARACTERISTICS FILE (ECF)

	Table 3.11 – Continued					
	File name	StartYQ	EndYQ	Obs. $(1000s)$	Size (GB)	
Sort order						
	sein seinunit near guarter					

Number of files for each data set group and state. Aggregate size of all files in GB in parentheses.

Table 3.12: Number of observations for ECFT26

	Number of	Records	Filesize
Group	datafiles	(1000s)	(GB)
ECFT26	2	149,300	10

Table 3.13: List of data files for ECFT26, by state

File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)		
	Sort order	•				
California (ca)						
$ecf_ca_sein_t26$	1991Q1	2008Q4	70,400	< 5		
	sein yea	r $quarter$				
ecf_ca_seinunit_t26	1991Q1	2008Q4	78,800	< 5		
$sein\ seinunit\ year\ quarter$						

Number of files for each data set group and state. Aggregate size of all files in GB in parentheses.

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$\overline{3.5}$ NOTES

• In the current (S2004) files, there are no es_galid or leg_galid variables on the NC and NM ECF_state_seinunit files. *Solution:* Use the GAL_state_xwlk_YYYY files if needing to link to the GAL.

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Chapter 4. Employment History Files (EHF)

4.1 **OVERVIEW**

The Employment History Files (EHF) are designed to store the complete in-state work history for each individual that appears in the UI wage records. The EHF for each state contains one record for each employeeemployer combination—a job—in that state in each year. Both annual and quarterly earnings variables are available in the EHF. Individuals who are employed, but never have strictly positive earnings at their employing SEIN (a theoretical possibility) in a given year do not have a record in the EHF for that year. To facilitate analysis, the EHF data are restructured into another file containing one observation per job (PIK-SEIN combination), with all quarterly earnings and activity information available on that record. The restructured file is called the Person History File (PHF). It should be noted that the actual file structure is at the PIK-SEIN-SEINUNIT-YEAR level for the EHF, and at the PIK-SEIN-SEINUNIT level for the PHF. Although only one state (Minnesota) has non-zero values for SEINUNIT, this allows the file structure to be homogeneous across states. An active job within a quarter, the primary job-level economic activity measure, is defined as having strictly positive quarterly earnings for the individual-employer pair that define the job.

A time-series similar to the aggregated job data, but based on observed activity (positive employment) in the ES-202 records, is available and computed at the SEINUNIT level (Unit History File, UHF) and the SEIN level (SEIN History File, SHF).

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$\overline{4.2}$ INPUT FILES

4.2.1Wage records: UI

Wage records correspond to the report of an individual's UI-covered earnings by an employing entity, identified by a state UI account number (called the SEIN in the LEHD system). An individual's UI wage record is retained in the processing if at least one employer reports earnings of at least one dollar for that individual during the quarter. Thus, an in-scope job must produce at least one dollar of UI-covered earnings during a given quarter in the LEHD universe. Maximum earnings reported are defined in a specific state's unemployment insurance system, and observed top-coding varies across states and over time.

A record is completed with information on the individual's Social Security Number (later replaced with the PIK within the LEHD system), first name, last name, and middle initial. A few states include additional information: the firm's reporting unit or establishment (SEINUNIT), available for Minnesota, and a crucial component to the Unit-to-Worker impute described later; weeks worked, available for some years in Florida; hours worked, available for Washington and Minnesota state.

Current UI wage records are reported for the quarter that ended approximately six months prior to the reporting date at Census (the first day of the calendar quarter). Wage records are also reported for the quarter that the state considers "final" in the sense that revisions to its administrative UI wage record data base after that date are relatively rare. This quarter typically ends nine months prior to the reporting date. Historical UI wage records were assembled by the partner states from their administrative record backup systems.

4.2.2 Employer reports: ES-202

The employer reports are based on information from each state's Department of Employment Security. The data are collected as part of the Covered Employment and Wages (CEW) program, also known as the ES-202 program, which is jointly administered by the BLS and the Employment Security Agencies in a federal-state partnership. This cooperative program between the states and the federal government collects employment, payroll, and economic activity, and physical location information from employers covered by state unemployment insurance programs and from employers subject to the reporting requirements of the ES-202 system. The employer and work place reports from this system are the same as the data reported to the BLS as part of the Quarterly Census of Employment and Wages (QCEW), but are referred to in the LEHD system by their old acronym "ES-202." The universe for these data is a 'reporting unit,' which is the QCEW establishment—the place where the employees actually perform their work. Most employers have one establishment ('single-units'), but most employment is with employers who have multiple establishments ('multi-units'). One report per establishment per quarter is filed. These data are also used to compile the QCEW and the Business Employment Dynamics (BED) data at the BLS.

The information contained in the ES-202 reports has increased substantially over the years. Employers report wages subject to statutory payroll taxes on this form, together with some other information. Common to all years, and critical to LEHD processing, are information on the employer's identity (the SEIN), the reporting unit's identify (SEINUNIT), ownership information, employment on the 12th of each month covered by the quarter, and total wages paid over the course of the quarter. Additional information pertains to industry classifications (initially SIC, and later NAICS). Other information include the federal EIN, geography both at a high level (county or MSA) and low level (physical location street address and mailing address). A recent expansion of the standard report's record layout has increased the informational content substantially. The LEHD Infrastructure File system is, fundamentally, a job-based frame designed to be represent the universe of individual-employer pairs covered by state unemployment insurance system reporting requirements. Thus, the underlying data are wage records extracted from Unemployment Insurance (UI) administrative files from each LED partner state. In addition to the UI wage records, LED partner states also deliver an extract of the file reported to the Bureau of Labor Statistic's Quarterly Census of Employment and Wages (QCEW, formerly known as ES-202). These data are received by LEHD on a quarterly basis, with historical time series extending back to the early 1990s for many states.

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4.3 DATA SET DESCRIPTIONS

4.3.1 Naming scheme

All files start with ehf:

ehf_zz_controltotals.sas7bdat
ehf_zz_phf.sas7bdat
ehf_zz.sas7bdat
ehf_zz_sein_employment.sas7bdat
ehf_zz_shf.sas7bdat
ehf_zz_uhf.sas7bdat
ehf_zz_uhf.sas7bdat

ZZ stands for the state postal abbreviation. The main EHF file has no suffix, other files have a suffix. You will find zero-observation SAS datasets attached to this document - see the attachment tab.

4.3.2 Data location

The files are stored in two main directories, with state-specific subdirectories:

ehf/ZZ/ for most files

No files in the EHF process contain Title 26 data. On the RDC network, the directory can be found under /mixed/lehd/current

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$\overline{4.3.3}$ **UI-based Output Files**

4.3.3.1 \mathbf{EHF}

The EHF is designed to store the complete in-state work history for each individual that appears in the UI wage records. The EHF for each state contains one record for each employee-employer combination in that state in each year. Every individual who is employed during a given year will then have one observation per employer for that year. Annual earnings and quarterly earnings variables are present on the file. The presence of positive quarterly earnings is used in the job flow analysis not only to compute earnings and payroll statistics but also to determine an individual's employment status each quarter.

The EHF (ehf_&state.) is organized by PIK-SEIN-SEINUNIT-YEAR. Note that all states except Minnesota (MN) have SEINUNIT='00000', so this reverts back to PIK-SEIN-YEAR for all states except MN.

Record identifier PIK-SEIN-SEINUNIT-YEAR

Sort order PIK-SEIN-SEINUNIT-YEAR

Entity Job

Unique Entity Key PIK-SEIN-SEINUNIT

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Annual earnings	EARN_ANN	00003	5	N
Calendar year	YEAR	00000	3	N
Protected Identification Key	PIK	00028	9	A/N
Qtr 1 earnings	EARN1	00008	5	N
Qtr 2 earnings	EARN2	00013	5	N
Qtr 3 earnings	EARN3	00018	5	N
Qtr 4 earnings	EARN4	00023	5	N
Source of data (FIPS state code/0=Fed)	SOURCE	00037	2	A/N
State Employer Identification Number	SEIN	00041	12	A/N
State UI Reporting Unit Number	SEINUNIT	00053	5	A/N
Type of source	SOURCETP	00039	2	A/N

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4.3.3.2 (proto-)PHF

The proto PHF is a reformatted version of the EHF. Rather than having one record per year, the PHF is organized by "job", or unique employee-employer combination, identified by PIK-SEIN(-SEINUNIT), with cmplete historical arrays for earnings and employment status. It is not to be confused with the PHF_B of the QWI sequence, which is augmented with information from the U2W process for non-MN states.

The PHF (ehf_&state._phf) is organized by PIK-SEIN-SEINUNIT. Note that all states except MN have SEINUNIT='00000', so this reverts back to PIK-SEIN for all states except MN.

Record identifier PIK-SEIN-SEINUNIT

Sort order PIK-SEIN-SEINUNIT

Entity Job

Unique Entity Key PIK-SEIN-SEINUNIT

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Binary workhistory00111000 1=employed	WORK	00264	80	A/N
Employment in QTIME=33	E33	00000	5	N
Employment in QTIME=34	E34	00005	5	N
Employment in QTIME=35	E35	00010	5	N
Employment in QTIME=36	E36	00015	5	N
Employment in QTIME=37	E37	00020	5	N
Employment in QTIME=38	E38	00025	5	N
Employment in QTIME=39	E39	00030	5	N
Employment in QTIME=40	E40	00035	5	N
Employment in QTIME=41	E41	00040	5	N
Employment in QTIME=42	E42	00045	5	N
Employment in QTIME=43	E43	00050	5	N
Employment in QTIME=44	E44	00055	5	N
Employment in QTIME=45	E45	00060	5	N
Employment in QTIME=46	E46	00065	5	N
Employment in QTIME=47	E47	00070	5	N
Employment in QTIME=48	E48	00075	5	N
Employment in QTIME=49	E49	00080	5	N
Employment in QTIME=50	E50	00085	5	N
Employment in QTIME=51	E51	00090	5	N
Employment in QTIME=52	E52	00095	5	N
Employment in QTIME=53	E53	00100	5	N
Employment in QTIME=54	E54	00105	5	N
Employment in QTIME=55	E55	00110	5	N
Employment in QTIME=56	E56	00115	5	N
Employment in QTIME=57	E57	00120	5	N
Employment in QTIME=58	E58	00125	5	N
Employment in QTIME=59	E59	00130	5	N
Employment in QTIME=60	E60	00135	5	N
Employment in QTIME=61	E61	00140	5	N
Employment in QTIME=62	E62	00145	5	N
Employment in QTIME=63	E63	00150	5	N
Employment in QTIME=64	E64	00155	5	N
Employment in QTIME=65	E65	00160	5	N

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Employment in QTIME=66	E66	00165	5	N
Employment in QTIME=67	E67	00170	5	N
Employment in QTIME=68	E68	00175	5	N
Employment in QTIME=69	E69	00180	5	N
Employment in QTIME=70	E70	00185	5	N
Employment in QTIME=71	E71	00190	5	N
Employment in QTIME=72	E72	00195	5	N
Employment in QTIME=73	E73	00200	5	N
Employment in QTIME=74	E74	00205	5	N
Employment in QTIME=75	E75	00210	5	N
Employment in QTIME=76	E76	00215	5	N
Employment in QTIME=77	E77	00220	5	N
Employment in QTIME=78	E78	00225	5	N
Employment in QTIME=79	E79	00230	5	N
Employment in QTIME=80	E80	00235	5	N
Protected Identification Key	PIK	00243	9	A/N
SEINUNIT imputed (never true, compatibility)	FLAG_SEINUNIT_IMPUTED	00240	3	N
State Employer Identification Number	SEIN	00252	12	A/N
State UI Reporting Unit Number	SEINUNIT	00344	5	A/N

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4.3.3.3 UNIQPIK file

The UNIQPIK file is an input to the ICF. It also contains some diagnostic information, such as the number of records overall per PIK. It used to be produced by the (legacy) UIPIK sequence (called ssnall there). The UNIQPIK file (ehf_&state._uniqpik) is organized by PIK.

Record identifier PIK

Sort order PIK

Entity Person

Unique Entity Key PIK

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Illegal SSN Range Flag	SSNFLAG	00000	1	A/N
Protected Identification Key	PIK	00001	9	A/N
cut = substr(pik, 1, 2)	CUT	00010	9	A/N

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4.3.3.4 SEIN_EMPLOYMENT

The SEIN_EMPLOYMENT is a SEIN-level measure of employment based on UI data.

The SEIN_EMPLOYMENT file (ehf_&state._sein_employment) is organized by SEIN-YEAR. No SEINUNIT version exists.

Record identifier SEIN-YEAR

Sort order SEIN-YEAR

 $\mathbf{Entity} \ \mathrm{Firm}$

Unique Entity Key SEIN

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Beginning of quarter employment	В	00016	8	N
Beginning of quarter employment	E	00008	8	N
Flow employment	M	00000	8	N
Quarter	QUARTER	00035	3	N
State Employer Identification Number	SEIN	00038	12	A/N
Total earnings during the quarter	w1	00024	8	N
Year	YEAR	00032	3	N
Year-Quarter YYYY:Q	YR_QTR	00050	6	A/N

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4.3.4 ES202-based Output Files

4.3.4.1 UHF

The UHF (Unit History File) used to be produced by the SPF (prior to version 3.1.12). It contains a full history of activity for each SEIN-SEINUNIT (wide file). It is still used as an input to the SPF. It replaces seinunit_history_es.sas7bdat.

The UHF file (ehf_&state._uhf) is organized by SEIN-SEINUNIT.

Record identifier SEIN-SEINUNIT

Sort order SEIN-SEINUNIT

Entity Establishment

Unique Entity Key SEIN-SEINUNIT

1 if part of multi-establishment,2 if master unit =1 if positive employment in quarter i	MU_CODE	position 02034	size	type
master unit		02034	0.0	
	A COMMUNICATION OF THE		80	A/N
= 1 if positive employment in quarter i	A COMPLETE BY AND LOVE BO			
	ACTIVE_EMPLOY_ES	01954	80	A/N
Ever had positive employment	ACTIVE_EVER_ES	01920	8	N
First QTIME with positive employment	$ACTIVE_BEG_QTR_ES$	01928	3	\mathbf{N}
Last QTIME with positive employment	$ACTIVE_END_QTR_ES$	01931	3	\mathbf{N}
Maximum monthly employment in QTIME=1	EMP_ES1	00640	8	\mathbf{N}
Maximum monthly employment in QTIME=10	EMP_ES10	00712	8	\mathbf{N}
Maximum monthly employment in QTIME=11	EMP_ES11	00720	8	\mathbf{N}
Maximum monthly employment in QTIME=12	EMP_ES12	00728	8	\mathbf{N}
Maximum monthly employment in QTIME=13	EMP_ES13	00736	8	\mathbf{N}
Maximum monthly employment in QTIME=14	EMP_ES14	00744	8	\mathbf{N}
Maximum monthly employment in QTIME=15	EMP_ES15	00752	8	\mathbf{N}
Maximum monthly employment in QTIME=16	EMP_ES16	00760	8	N
Maximum monthly employment in QTIME=17	EMP_ES17	00768	8	N
Maximum monthly employment in QTIME=18	EMP_ES18	00776	8	\mathbf{N}
Maximum monthly employment in QTIME=19	EMP_ES19	00784	8	\mathbf{N}
Maximum monthly employment in QTIME=2	EMP_ES2	00648	8	N
Maximum monthly employment in QTIME=20	EMP_ES20	00792	8	N
Maximum monthly employment in QTIME=21	EMP_ES21	00800	8	N
Maximum monthly employment in QTIME=22	EMP_ES22	00808	8	N
Maximum monthly employment in QTIME=23	EMP_ES23	00816	8	N
Maximum monthly employment in QTIME=24	EMP_ES24	00824	8	N
Maximum monthly employment in QTIME=25	EMP_ES25	00832	8	N
Maximum monthly employment in QTIME=26	EMP_ES26	00840	8	N
Maximum monthly employment in QTIME=27	EMP_ES27	00848	8	N
Maximum monthly employment in QTIME=28	EMP_ES28	00856	8	N
Maximum monthly employment in QTIME=29	EMP_ES29	00864	8	N
Maximum monthly employment in QTIME=3	EMP_ES3	00656	8	N
Maximum monthly employment in QTIME=30	EMP_ES30	00872	8	N
Maximum monthly employment in QTIME=31	EMP_ES31	00880	8	N
Maximum monthly employment in QTIME=32	EMP_ES32	00888	8	N
Maximum monthly employment in QTIME=33	EMP_ES33	00896	8	N
Maximum monthly employment in QTIME=34	EMP_ES34	00904	8	N
Maximum monthly employment in QTIME=35	EMP_ES35	00912	8	N

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Field name	Data dictionary	Starting	T2: 11	
			Field	Data
76.	reference name	position	size	type
Maximum monthly employment in QTIME=36	EMP_ES36	00920	8	N
Maximum monthly employment in QTIME=37	EMP_ES37	00928	8	N
Maximum monthly employment in QTIME=38	EMP_ES38	00936	8	N
Maximum monthly employment in QTIME=39	EMP_ES39	00944	8	N
Maximum monthly employment in QTIME=4	EMP_ES4	00664	8	N
Maximum monthly employment in QTIME=40	EMP_ES40	00952	8	N
Maximum monthly employment in QTIME=41	EMP_ES41	00960	8	N
Maximum monthly employment in QTIME=42	EMP_ES42	00968	8	N
Maximum monthly employment in QTIME=43	EMP_ES43	00976	8	N
Maximum monthly employment in QTIME=44	EMP_ES44	00984	8	N
Maximum monthly employment in QTIME=45	EMP_ES45	00992	8	N
Maximum monthly employment in QTIME=46	EMP_ES46	01000	8	N
Maximum monthly employment in QTIME=47	EMP_ES47	01008	8	N
Maximum monthly employment in QTIME=48	EMP_ES48	01016	8	N
Maximum monthly employment in QTIME=49	EMP_ES49	01024	8	N
Maximum monthly employment in QTIME=5	EMP_ES5	00672	8	N
Maximum monthly employment in QTIME=50	EMP_ES50	01032	8	N
Maximum monthly employment in QTIME=51	EMP_ES51	01040	8	N
Maximum monthly employment in QTIME=52	EMP_ES52	01048	8	N
Maximum monthly employment in QTIME=53	EMP_ES53	01056	8	N
Maximum monthly employment in QTIME=54	EMP_ES54	01064	8	N
Maximum monthly employment in QTIME=55	EMP_ES55	01072	8	N
Maximum monthly employment in QTIME=56	EMP_ES56	01080	8	N
Maximum monthly employment in QTIME=57	EMP_ES57	01088	8	N
Maximum monthly employment in QTIME=58	EMP_ES58	01096	8	N
Maximum monthly employment in QTIME=59	EMP_ES59	01104	8	N
Maximum monthly employment in QTIME=6	EMP_ES6	00680	8	N
Maximum monthly employment in QTIME=60	EMP_ES60	01112	8	N
Maximum monthly employment in QTIME=60 Maximum monthly employment in QTIME=61	EMP_ES61	01112	8	N
Maximum monthly employment in QTIME=62	EMP_ES62	$01120 \\ 01128$	8	N
Maximum monthly employment in QTIME=63	EMP_ES63	01136	8	N
· - · · · ·	EMP_ES64	01130 01144	8	N
Maximum monthly employment in QTIME=64				
Maximum monthly employment in QTIME=65	EMP_ES65	01152	8	N
Maximum monthly employment in QTIME=66	EMP_ES66	01160	8	N
Maximum monthly employment in QTIME=67	EMP_ES67	01168	8	N
Maximum monthly employment in QTIME=68	EMP_ES68	01176	8	N
Maximum monthly employment in QTIME=69	EMP_ES69	01184	8	N
Maximum monthly employment in QTIME=7	EMP_ES7	00688	8	N
Maximum monthly employment in QTIME=70	EMP_ES70	01192	8	N
Maximum monthly employment in QTIME=71	EMP_ES71	01200	8	N
Maximum monthly employment in QTIME=72	EMP_ES72	01208	8	N
Maximum monthly employment in QTIME=73	EMP_ES73	01216	8	N
Maximum monthly employment in QTIME=74	EMP_ES74	01224	8	N
Maximum monthly employment in QTIME=75	EMP_ES75	01232	8	N
Maximum monthly employment in QTIME=76	EMP_ES76	01240	8	N
Maximum monthly employment in QTIME=77	EMP_ES77	01248	8	N
Maximum monthly employment in QTIME=78	EMP_ES78	01256	8	N
Maximum monthly employment in QTIME=79	EMP_ES79	01264	8	N
Maximum monthly employment in QTIME=8	EMP_ES8	00696	8	N
maximum montiny employment in Q11ME=8				

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

CHAPTER 4. EMPLOYMENT HISTORY FILES				
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Maximum monthly employment in QTIME=9	EMP_ES9	00704	8	N
Month 1 employment in QTIME=1	BPEMP_ES1	00000	8	N
Month 1 employment in QTIME=10	BPEMP_ES10	00072	8	N
Month 1 employment in QTIME=11	BPEMP_ES11	00080	8	N
Month 1 employment in QTIME=12	BPEMP_ES12	00088	8	N
Month 1 employment in QTIME=13	BPEMP_ES13	00096	8	N
Month 1 employment in QTIME=14	BPEMP_ES14	00104	8	N
Month 1 employment in QTIME=15	BPEMP_ES15	00112	8	N
Month 1 employment in QTIME=16	BPEMP_ES16	00120	8	N
Month 1 employment in QTIME=17	BPEMP_ES17	00128	8	N
Month 1 employment in QTIME=18	BPEMP_ES18	00136	8	N
Month 1 employment in QTIME=19	BPEMP_ES19	00144	8	N
Month 1 employment in QTIME=2	BPEMP_ES2	00008	8	N
Month 1 employment in QTIME=20	BPEMP_ES20	00152	8	N
Month 1 employment in QTIME=21	BPEMP_ES21	00160	8	N
Month 1 employment in QTIME=22	BPEMP_ES22	00168	8	N
Month 1 employment in QTIME=23	BPEMP_ES23	00176	8	N
Month 1 employment in QTIME=24	BPEMP_ES24	00184	8	N
Month 1 employment in QTIME=25	BPEMP_ES25	00194	8	N
Month 1 employment in QTIME=26	BPEMP_ES26	00200	8	N
Month 1 employment in QTIME=27	BPEMP_ES27	00208	8	N
Month 1 employment in QTIME=28	BPEMP_ES28	00208	8	N
Month 1 employment in QTIME=29		00210 00224	8	N
	BPEMP_ES29		8	
Month 1 employment in QTIME=3	BPEMP_ES3	00016		N
Month 1 employment in QTIME=30	BPEMP_ES30	00232	8	N
Month 1 employment in QTIME=31	BPEMP_ES31	00240	8	N
Month 1 employment in QTIME=32	BPEMP_ES32	00248	8	N
Month 1 employment in QTIME=33	BPEMP_ES33	00256	8	N
Month 1 employment in QTIME=34	BPEMP_ES34	00264	8	N
Month 1 employment in QTIME=35	BPEMP_ES35	00272	8	N
Month 1 employment in QTIME=36	BPEMP_ES36	00280	8	N
Month 1 employment in QTIME=37	BPEMP_ES37	00288	8	N
Month 1 employment in QTIME=38	BPEMP_ES38	00296	8	N
Month 1 employment in QTIME=39	BPEMP_ES39	00304	8	N
Month 1 employment in QTIME=4	BPEMP_ES4	00024	8	N
Month 1 employment in QTIME=40	BPEMP_ES40	00312	8	N
Month 1 employment in QTIME=41	BPEMP_ES41	00320	8	N
Month 1 employment in QTIME=42	BPEMP_ES42	00328	8	N
Month 1 employment in QTIME=43	BPEMP_ES43	00336	8	N
Month 1 employment in QTIME=44	BPEMP_ES44	00344	8	N
Month 1 employment in QTIME=45	BPEMP_ES45	00352	8	N
Month 1 employment in QTIME=46	BPEMP_ES46	00360	8	N
Month 1 employment in QTIME=47	BPEMP_ES47	00368	8	N
Month 1 employment in QTIME=48	BPEMP_ES48	00376	8	N
Month 1 employment in QTIME=49	BPEMP_ES49	00384	8	N
Month 1 employment in QTIME=5	BPEMP_ES5	00032	8	N
Month 1 employment in QTIME=50	BPEMP_ES50	00392	8	N
Month 1 employment in QTIME=50 Month 1 employment in QTIME=51	BPEMP_ES51	00400	8	N
Month 1 employment in QTIME=51 Month 1 employment in QTIME=52	BPEMP_ES52	00408	8	N
Month 1 employment in QTIME=52 Month 1 employment in QTIME=53	BPEMP_ES53	00408	8	N
MORER I employment in QIIME=95	DPEMF_ESOO	00410	0	1/

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Data dictionary Starting Field Data	CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)				
Month employment in QTIME=54	Field name	,	"		
Month employment in QTIME=55 BPEMP_ES56 00440 8 N			_		
Month employment in QTIME=57 BPEMP_E857 00448 8 N					
Month 1 employment in QTIME=57 BPEMP_ES57 00448 8 N Month 1 employment in QTIME=59 BPEMP_ES59 00466 8 N Month 1 employment in QTIME=60 BPEMP_ES6 00040 8 N Month 1 employment in QTIME=61 BPEMP_ES6 00040 8 N Month 1 employment in QTIME=61 BPEMP_ES61 00480 8 N Month 1 employment in QTIME=63 BPEMP_ES62 00488 8 N Month 1 employment in QTIME=63 BPEMP_ES63 00496 8 N Month 1 employment in QTIME=65 BREMP_ES64 00504 8 N Month 1 employment in QTIME=66 BPEMP_ES65 00512 8 N Month 1 employment in QTIME=67 BPEMP_ES66 00520 8 N Month 1 employment in QTIME=68 BPEMP_ES66 00520 8 N Month 1 employment in QTIME=7 BPEMP_ES7 00528 8 N Month 1 employment in QTIME=7 BPEMP_ES7 00544 8 N M					
Month 1 employment in QTIME=58 BPEMP_ES59 00464 8 N Month 1 employment in QTIME=6 BPEMP_ES6 00040 8 N Month 1 employment in QTIME=6 BPEMP_ES6 00040 8 N Month 1 employment in QTIME=61 BPEMP_ES61 00480 8 N Month 1 employment in QTIME=62 BPEMP_ES62 00488 8 N Month 1 employment in QTIME=63 BPEMP_ES63 00496 8 N Month 1 employment in QTIME=65 BPEMP_ES64 00504 8 N Month 1 employment in QTIME=66 BPEMP_ES65 00512 8 N Month 1 employment in QTIME=67 BPEMP_ES66 00520 8 N Month 1 employment in QTIME=68 BPEMP_ES67 00528 8 N Month 1 employment in QTIME=69 BPEMP_ES69 00544 8 N Month 1 employment in QTIME=70 BPEMP_ES7 00048 8 N Month 1 employment in QTIME=71 BPEMP_ES70 00552 8 N					
Month 1 employment in QTIME=59 BPEMP_ES6 000464 8 N					
Month 1 employment in QTIME=6 BPEAP_ES6 00040 8 N		BPEMP_ES58			
Month 1 employment in QTIME=61 BPEMP_E861 00472 8 N Month 1 employment in QTIME=61 BPEMP_E862 00488 8 N Month 1 employment in QTIME=63 BPEMP_E863 00496 8 N Month 1 employment in QTIME=64 BPEMP_E864 00504 8 N Month 1 employment in QTIME=65 BPEMP_E865 00512 8 N Month 1 employment in QTIME=67 BPEMP_E866 00520 8 N Month 1 employment in QTIME=68 BPEMP_E866 00520 8 N Month 1 employment in QTIME=69 BPEMP_E868 00536 8 N Month 1 employment in QTIME=69 BPEMP_E869 00544 8 N Month 1 employment in QTIME=70 BPEMP_E870 00522 8 N Month 1 employment in QTIME=71 BPEMP_E871 00560 8 N Month 1 employment in QTIME=72 BPEMP_E872 00568 8 N Month 1 employment in QTIME=73 BPEMP_E873 00576 8 N		BPEMP_ES59			
Month 1 employment in QTIME=61 BPEAP_ES61 00480 8 N Month 1 employment in QTIME=63 BPEMP_ES62 00486 8 N Month 1 employment in QTIME=64 BPEAP_ES63 00496 8 N Month 1 employment in QTIME=65 BPEAP_ES65 00512 8 N Month 1 employment in QTIME=66 BPEAP_ES66 00520 8 N Month 1 employment in QTIME=67 BPEAP_ES68 00536 8 N Month 1 employment in QTIME=69 BPEAP_ES69 00544 8 N Month 1 employment in QTIME=7 BPEAP_ES6 00536 8 N Month 1 employment in QTIME=70 BPEAP_ES7 00048 8 N Month 1 employment in QTIME=71 BPEAP_ES71 00560 8 N Month 1 employment in QTIME=73 BPEAP_ES72 00568 8 N Month 1 employment in QTIME=73 BPEAP_ES73 00576 8 N Month 1 employment in QTIME=75 BPEAP_ES74 00584 8 N <t< td=""><td>- v -</td><td>BPEMP_ES6</td><td></td><td></td><td></td></t<>	- v -	BPEMP_ES6			
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Month 1 employment in QTIME=64 BPEMP_E865 00512 8 N Month 1 employment in QTIME=65 BPEMP_E866 00520 8 N Month 1 employment in QTIME=67 BPEMP_E867 00528 8 N Month 1 employment in QTIME=68 BPEMP_E868 00536 8 N Month 1 employment in QTIME=69 BPEMP_E869 00544 8 N Month 1 employment in QTIME=70 BPEMP_E87 00048 8 N Month 1 employment in QTIME=71 BPEMP_E871 00560 8 N Month 1 employment in QTIME=73 BPEMP_E871 00560 8 N Month 1 employment in QTIME=73 BPEMP_E873 00576 8 N Month 1 employment in QTIME=74 BPEMP_E873 00576 8 N Month 1 employment in QTIME=75 BPEMP_E875 00592 8 N Month 1 employment in QTIME=76 BPEMP_E877 00608 8 N Month 1 employment in QTIME=78 BPEMP_E877 00608 8 N	- · · · · · · · · · · · · · · · · · · ·	BPEMP_ES62			
Month 1 employment in QTIME=66 BPEMP_ES66 00520 8 N Month 1 employment in QTIME=67 BPEMP_ES667 00528 8 N Month 1 employment in QTIME=68 BPEMP_ES667 00528 8 N Month 1 employment in QTIME=69 BPEMP_ES69 00544 8 N Month 1 employment in QTIME=7 BPEMP_ES7 00048 8 N Month 1 employment in QTIME=71 BPEMP_ES71 00560 8 N Month 1 employment in QTIME=72 BPEMP_ES71 00560 8 N Month 1 employment in QTIME=73 BPEMP_ES73 00576 8 N Month 1 employment in QTIME=73 BPEMP_ES74 00584 8 N Month 1 employment in QTIME=76 BPEMP_ES75 00592 8 N Month 1 employment in QTIME=76 BPEMP_ES76 00600 8 N Month 1 employment in QTIME=77 BPEMP_ES77 00608 8 N Month 1 employment in QTIME=8 BPEMP_ES78 00616 8 N	- · · · · · · · · · · · · · · · · · · ·	BPEMP_ES63			N
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Number of establishments in QTIME=16 Numruns16 Number of establishments in QTIME=17 Number of establishments in QTIME=18 Number of establishments in QTIME=18 Numruns18 Number of establishments in QTIME=19 Numruns19 Number of establishments in QTIME=2 Numruns2 Number of establishments in QTIME=2 Numruns20 Number of establishments in QTIME=21 Numruns21 Number of establishments in QTIME=21 Numruns21 Number of establishments in QTIME=22 Numruns22 Numruns23 Number of establishments in QTIME=23 Numruns23 Numruns23 Numruns23 Numruns23 Numruns23	-				
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Number of establishments in QTIME=18 NumRuns18 Number of establishments in QTIME=19 NumBer of establishments in QTIME=2 NumRuns2 Number of establishments in QTIME=2 NumRuns2 Number of establishments in QTIME=20 NumRuns20 NumBer of establishments in QTIME=21 NumRuns21 Number of establishments in QTIME=22 NumRuns22 NumRuns22 NumRuns23 NumBer of establishments in QTIME=23 NumRuns23 NumRuns23 NumRuns23 NumRuns23 NumRuns23 NumRuns23					
Number of establishments in QTIME=19NUMRUNS19014248NNumber of establishments in QTIME=2NUMRUNS2012888NNumber of establishments in QTIME=20NUMRUNS20014328NNumber of establishments in QTIME=21NUMRUNS21014408NNumber of establishments in QTIME=22NUMRUNS22014488NNumber of establishments in QTIME=23NUMRUNS23014568N					
Number of establishments in QTIME=2NUMRUNS2012888NNumber of establishments in QTIME=20NUMRUNS20014328NNumber of establishments in QTIME=21NUMRUNS21014408NNumber of establishments in QTIME=22NUMRUNS22014488NNumber of establishments in QTIME=23NUMRUNS23014568N					
Number of establishments in QTIME=20NUMRUNS20014328NNumber of establishments in QTIME=21NUMRUNS21014408NNumber of establishments in QTIME=22NUMRUNS22014488NNumber of establishments in QTIME=23NUMRUNS23014568N					
Number of establishments in QTIME=21NUMRUNS21014408NNumber of establishments in QTIME=22NUMRUNS22014488NNumber of establishments in QTIME=23NUMRUNS23014568N					
Number of establishments in QTIME=22 NUMRUNS22 01448 8 N Number of establishments in QTIME=23 NUMRUNS23 01456 8 N					
Number of establishments in QTIME=23 NUMRUNS23 01456 8 N					
	-				
Number of establishments in Q 1 IME=24 NUMRUNS24 U1464 8 N	-				
<u>·</u>	-				
Number of establishments in QTIME=25 NUMRUNS25 01472 8 N Number of establishments in QTIME=26 NUMRUNS26 01480 8 N	-				
Number of establishments in QTIME=26 NUMRUNS26 01480 8 N	rumber of establishments in QTIVIE=20	NUMRUN520	01400	0	1N

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

CHAPTER 4. EMPLOYMENT HISTORY FILES		G	T: 13	D.
Field name	Data dictionary reference name	Starting position	Field size	Data
Number of establishments in QTIME=27	NUMRUNS27	01488	size 8	type N
Number of establishments in QTIME=27 Number of establishments in QTIME=28	NUMRUNS28	01496	8	N
Number of establishments in QTIME=28 Number of establishments in QTIME=29	NUMRUNS29	01504	8	N
		01304 01296	8	N N
Number of establishments in QTIME=3	NUMRUNS3		8	N N
Number of establishments in QTIME=30	NUMRUNS30	01512		
Number of establishments in QTIME=31	NUMRUNS31	01520	8	N
Number of establishments in QTIME=32	NUMRUNS32	01528	8	N
Number of establishments in QTIME=33 Number of establishments in QTIME=34	NUMRUNS33	01536	8 8	N N
•	NUMRUNS34	01544		
Number of establishments in QTIME=35	NUMRUNS35	01552	8	N
Number of establishments in QTIME=36	NUMRUNS36	01560	8	N
Number of establishments in QTIME=37	NUMRUNS37	01568	8	N
Number of establishments in QTIME=38	NUMRUNS38	01576	8	N
Number of establishments in QTIME=39	NUMRUNS39	01584	8	N
Number of establishments in QTIME=4	NUMRUNS4	01304	8	N
Number of establishments in QTIME=40	NUMRUNS40	01592	8	N
Number of establishments in QTIME=41	NUMRUNS41	01600	8	N
Number of establishments in QTIME=42	NUMRUNS42	01608	8	N
Number of establishments in QTIME=43	NUMRUNS43	01616	8	N
Number of establishments in QTIME=44	NUMRUNS44	01624	8	N
Number of establishments in QTIME=45	NUMRUNS45	01632	8	N
Number of establishments in QTIME=46	NUMRUNS46	01640	8	N
Number of establishments in QTIME=47	NUMRUNS47	01648	8	N
Number of establishments in QTIME=48	NUMRUNS48	01656	8	N
Number of establishments in QTIME=49	NUMRUNS49	01664	8	N
Number of establishments in QTIME=5	NUMRUNS5	01312	8	N
Number of establishments in QTIME=50	NUMRUNS50	01672	8	N
Number of establishments in QTIME=51	NUMRUNS51	01680	8	N
Number of establishments in QTIME=52	NUMRUNS52	01688	8	N
Number of establishments in QTIME=53	NUMRUNS53	01696	8	N
Number of establishments in QTIME=54	NUMRUNS54	01704	8	N
Number of establishments in QTIME=55	NUMRUNS55	01712	8	N
Number of establishments in QTIME=56	NUMRUNS56	01720	8	N
Number of establishments in QTIME=57	NUMRUNS57	01728	8	N
Number of establishments in QTIME=58	NUMRUNS58	01736	8	N
Number of establishments in QTIME=59	NUMRUNS59	01744	8	N
Number of establishments in QTIME=6	NUMRUNS6	01320	8	N
Number of establishments in QTIME=60	NUMRUNS60	01752	8	N
Number of establishments in QTIME=61	NUMRUNS61	01760	8	N
Number of establishments in QTIME=62	NUMRUNS62	01768	8	N
Number of establishments in QTIME=63	NUMRUNS63	01776	8	N
Number of establishments in QTIME=64	NUMRUNS64	01784	8	N
Number of establishments in QTIME=65	NUMRUNS65	01792	8	N
Number of establishments in QTIME=66	NUMRUNS66	01800	8	N
Number of establishments in QTIME=67	NUMRUNS67	01808	8	N
Number of establishments in QTIME=68	NUMRUNS68	01816	8	N
Number of establishments in QTIME=69	NUMRUNS69	01824	8	N
Number of establishments in QTIME=7	NUMRUNS7	01328	8	N
Number of establishments in QTIME=70	NUMRUNS70	01832	8	N
Number of establishments in QTIME=71	NUMRUNS71	01840	8	N

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Number of establishments in QTIME=72	NUMRUNS72	01848	8	N
Number of establishments in QTIME=73	NUMRUNS73	01856	8	N
Number of establishments in QTIME=74	NUMRUNS74	01864	8	N
Number of establishments in QTIME=75	NUMRUNS75	01872	8	N
Number of establishments in QTIME=76	NUMRUNS76	01880	8	N
Number of establishments in QTIME=77	NUMRUNS77	01888	8	N
Number of establishments in QTIME=78	NUMRUNS78	01896	8	N
Number of establishments in QTIME=79	NUMRUNS79	01904	8	N
Number of establishments in QTIME=8	NUMRUNS8	01336	8	N
Number of establishments in QTIME=80	NUMRUNS80	01912	8	N
Number of establishments in QTIME=9	NUMRUNS9	01344	8	N
Number of quarters with positive employment	ACTIVE_QTRS_ES	01934	3	N
State Employer ID Number	SEIN	01937	12	A/N
State UI Reporting Unit Number	SEINUNIT	01949	5	A/N

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4.3.4.2 SHF

The SHF (SEIN History File) used to be produced by the SPF (prior to version 3.1.12) as an internal file only. It contains a full history of activity for each SEIN (wide file). It is still used as an input to the SPF. It replaces sein_history_es.sas7bdat.

The SHF file (ehf_&state._shf) is organized by SEIN.

Record identifier **SEIN**

Sort order SEIN

Entity Firm

Unique Entity Key SEIN

reference name position size type	Field name	Data dictionary	Starting	Field	Data
In QTIME=10				size	type
in QTIME=11 ESTABS_ES12 01360 8 N in QTIME=12 ESTABS_ES12 01368 8 N in QTIME=13 ESTABS_ES13 01376 8 N in QTIME=14 ESTABS_ES14 01384 8 N in QTIME=15 ESTABS_ES15 01392 8 N in QTIME=16 ESTABS_ES16 01400 8 N in QTIME=16 ESTABS_ES16 01400 8 N in QTIME=18 ESTABS_ES17 01408 8 N in QTIME=19 ESTABS_ES19 01424 8 N in QTIME=2 ESTABS_ES2 01288 8 N in QTIME=20 ESTABS_ES2 01424 8 N in QTIME=21 ESTABS_ES2 01432 8 N in QTIME=22 ESTABS_ES2 01448 8 N in QTIME=23 ESTABS_ES22 01448 8 N in QTIME=24 ESTABS_ES23 01466 8	in QTIME=1	ESTABS_ES1	01280	8	N
In QTIME=12	in QTIME=10	ESTABS_ES10	01352	8	N
In QTIME=13	in QTIME=11	ESTABS_ES11	01360	8	N
in QTIME=14 in QTIME=15 in QTIME=15 in QTIME=16 in QTIME=16 in QTIME=17 in QTIME=17 in QTIME=17 in QTIME=18 in QTIME=19 in QTIME=19 in QTIME=2 in QTIME=2 in QTIME=2 in QTIME=2 in QTIME=21 in QTIME=22 in QTIME=22 in QTIME=23 in QTIME=23 in QTIME=23 in QTIME=24 in QTIME=25 in QTIME=26 in QTIME=26 in QTIME=27 in QTIME=27 in QTIME=28 in QTIME=28 in QTIME=28 in QTIME=29 in QTIME=29 in QTIME=21 in QTIME=28 in QTIME=28 in QTIME=28 in QTIME=28 in QTIME=30 in QTIME=31 in QTIME=30 in QTIME=31 in QTIME=30 in QTIME=31 in QTIME=31 in QTIME=31 in QTIME=33 in QTIME=30 in QTIME=31 in QTIME=30 in QTIME=31 in QTIME=30 in QTIME=31 in QTIME=31 in QTIME=30 in QTIME=30 in QTIME=31 in QTIME=31 in QTIME=31 in QTIME=33 in QTIME=34 in QTIME=35 in QTIME=35 in QTIME=35 in QTIME=36 in QTIME=37 in QTIME=38 in QTIME=38 in QTIME=38 in QTIME=38 in QTIME=38 in QTIME=39 in QTIME=39 in QTIME=40 in QTIME=50 in QTIME=50 in QTIME=50 in QTIME=5	in QTIME=12	ESTABS_ES12	01368	8	N
In QTIME=15	in QTIME=13	ESTABS_ES13	01376	8	N
in QTIME=16 ESTABS_ES16 01400 8 N in QTIME=17 ESTABS_ES17 01408 8 N in QTIME=18 ESTABS_ES18 01416 8 N in QTIME=19 ESTABS_ES19 01424 8 N in QTIME=2 ESTABS_ES2 01288 8 N in QTIME=20 ESTABS_ES20 01432 8 N in QTIME=21 ESTABS_ES21 01440 8 N in QTIME=22 ESTABS_ES22 01448 8 N in QTIME=23 ESTABS_ES23 01456 8 N in QTIME=24 ESTABS_ES23 01456 8 N in QTIME=25 ESTABS_ES24 01464 8 N in QTIME=26 ESTABS_ES25 01472 8 N in QTIME=27 ESTABS_ES26 01480 8 N in QTIME=30 ESTABS_ES29 01504 8 N in QTIME=31 ESTABS_ES30 01504 8	in QTIME=14	ESTABS_ES14	01384	8	N
in QTIME=17 ESTABS_ES17 01408 8 N in QTIME=18 ESTARS_ES18 01416 8 N in QTIME=19 ESTABS_ES19 01424 8 N in QTIME=21 ESTABS_ES2 01288 8 N in QTIME=21 ESTABS_ES20 01432 8 N in QTIME=21 ESTABS_ES21 01440 8 N in QTIME=22 ESTABS_ES22 01448 8 N in QTIME=23 ESTABS_ES23 01456 8 N in QTIME=24 ESTABS_ES23 01456 8 N in QTIME=25 ESTABS_ES24 01464 8 N in QTIME=26 ESTABS_ES25 01472 8 N in QTIME=27 ESTABS_ES26 01480 8 N in QTIME=29 ESTABS_ES28 01496 8 N in QTIME=3 ESTABS_ES3 01504 8 N in QTIME=30 ESTABS_ES31 01520 8	in QTIME=15	ESTABS_ES15	01392	8	N
in QTIME=18 ESTABS_ES18 01416 8 N in QTIME=19 ESTABS_ES19 01424 8 N in QTIME=2 ESTABS_ES2 01288 8 N in QTIME=20 ESTABS_ES20 01432 8 N in QTIME=21 ESTABS_ES21 01440 8 N in QTIME=22 ESTABS_ES22 01448 8 N in QTIME=23 ESTABS_ES23 01456 8 N in QTIME=24 ESTABS_ES24 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES26 01480 8 N in QTIME=29 ESTABS_ES28 01496 8 N in QTIME=30 ESTABS_ES30 01504 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=33 ESTABS_ES32 01528 8	in QTIME=16	ESTABS_ES16	01400		
in QTIME=19 ESTABS_ES19 01424 8 N in QTIME=2 ESTABS_ES2 01288 8 N in QTIME=20 ESTABS_ES20 01432 8 N in QTIME=21 ESTABS_ES21 01440 8 N in QTIME=22 ESTABS_ES22 01448 8 N in QTIME=23 ESTABS_ES22 01448 8 N in QTIME=24 ESTABS_ES23 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=30 ESTABS_ES3 01504 8 N in QTIME=31 ESTABS_ES3 01512 8 N in QTIME=32 ESTABS_ES31 01520 8 N in QTIME=33 ESTABS_ES33 01536 8	in QTIME=17	ESTABS_ES17	01408		
in QTIME=2 ESTABS_ES2 01288 8 N in QTIME=20 ESTABS_ES20 01432 8 N in QTIME=21 ESTABS_ES21 01440 8 N in QTIME=22 ESTABS_ES22 01448 8 N in QTIME=23 ESTABS_ES23 01456 8 N in QTIME=24 ESTABS_ES24 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=30 ESTABS_ES3 01504 8 N in QTIME=31 ESTABS_ES3 01512 8 N in QTIME=32 ESTABS_ES31 01520 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES35 01552 8	in QTIME=18	ESTABS_ES18	01416	8	
in QTIME=20 ESTABS_ES20 01432 8 N in QTIME=21 ESTABS_ES21 01440 8 N in QTIME=22 ESTABS_ES22 01448 8 N in QTIME=23 ESTABS_ES23 01456 8 N in QTIME=24 ESTABS_ES24 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=30 ESTABS_ES3 01504 8 N in QTIME=3 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES30 01512 8 N in QTIME=33 ESTABS_ES32 01520 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES36 01560 8		ESTABS_ES19	01424		
in QTIME=21 ESTABS_ES21 01440 8 N in QTIME=22 ESTABS_ES22 01448 8 N in QTIME=23 ESTABS_ES23 01456 8 N in QTIME=24 ESTABS_ES24 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES26 01480 8 N in QTIME=28 ESTABS_ES27 01488 8 N in QTIME=29 ESTABS_ES28 01496 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES3 01504 8 N in QTIME=31 ESTABS_ES30 01512 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES34 01528 8 N in QTIME=34 ESTABS_ES36 01560 8	in QTIME=2	ESTABS_ES2	01288	8	N
in QTIME=22 ESTABS_ES22 01448 8 N in QTIME=23 ESTABS_ES23 01456 8 N in QTIME=24 ESTABS_ES24 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=29 ESTABS_ES3 01496 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES3 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=33 ESTABS_ES32 01528 8 N in QTIME=34 ESTABS_ES33 01536 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES36 01560 8 N in QTIME=38 ESTABS_ES38 01576 8 N	in QTIME=20	ESTABS_ES20	01432	8	N
in QTIME=23 ESTABS_ES23 01456 8 N in QTIME=24 ESTABS_ES24 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N <td>in QTIME=21</td> <td>ESTABS_ES21</td> <td>01440</td> <td>8</td> <td>N</td>	in QTIME=21	ESTABS_ES21	01440	8	N
in QTIME=24 ESTABS_ES24 01464 8 N in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=36 ESTABS_ES35 01552 8 N in QTIME=37 ESTABS_ES36 01560 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N <td>in QTIME=22</td> <td>ESTABS_ES22</td> <td>01448</td> <td>8</td> <td>N</td>	in QTIME=22	ESTABS_ES22	01448	8	N
in QTIME=25 ESTABS_ES25 01472 8 N in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=36 ESTABS_ES35 01552 8 N in QTIME=37 ESTABS_ES36 01560 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N	in QTIME=23	ESTABS_ES23	01456	8	N
in QTIME=26 ESTABS_ES26 01480 8 N in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=39 ESTABS_ES38 01576 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	in QTIME=24	ESTABS_ES24	01464	8	N
in QTIME=27 ESTABS_ES27 01488 8 N in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=39 ESTABS_ES38 01576 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	in QTIME=25	ESTABS_ES25	01472	8	N
in QTIME=28 ESTABS_ES28 01496 8 N in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	in QTIME=26	ESTABS_ES26	01480	8	N
in QTIME=29 ESTABS_ES29 01504 8 N in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	in QTIME=27	ESTABS_ES27	01488	8	N
in QTIME=3 ESTABS_ES3 01296 8 N in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	in QTIME=28	ESTABS_ES28	01496	8	N
in QTIME=30 ESTABS_ES30 01512 8 N in QTIME=31 ESTABS_ES31 01520 8 N in QTIME=32 ESTABS_ES32 01528 8 N in QTIME=33 ESTABS_ES33 01536 8 N in QTIME=34 ESTABS_ES34 01544 8 N in QTIME=35 ESTABS_ES35 01552 8 N in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	in QTIME=29	ESTABS_ES29	01504	8	N
in QTIME=31	in QTIME=3	ESTABS_ES3	01296	8	N
in QTIME=32	in QTIME=30	ESTABS_ES30	01512	8	N
in QTIME=33	in QTIME=31	ESTABS_ES31	01520	8	N
in QTIME=34	in QTIME=32	ESTABS_ES32	01528	8	N
in QTIME=35	in QTIME=33	ESTABS_ES33	01536	8	N
in QTIME=36 ESTABS_ES36 01560 8 N in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	in QTIME=34	ESTABS_ES34	01544	8	N
in QTIME=37 ESTABS_ES37 01568 8 N in QTIME=38 ESTABS_ES38 01576 8 N in QTIME=39 ESTABS_ES39 01584 8 N in QTIME=4 ESTABS_ES4 01304 8 N in QTIME=40 ESTABS_ES40 01592 8 N	in QTIME=35	ESTABS_ES35	01552	8	N
in QTIME=38	in QTIME=36	ESTABS_ES36	01560	8	N
in QTIME=39	in QTIME=37	ESTABS_ES37	01568	8	N
in QTIME=4	in QTIME=38	ESTABS_ES38	01576	8	N
in QTIME=40	in QTIME=39	ESTABS_ES39	01584	8	N
· ·	in QTIME=4	ESTABS_ES4	01304	8	N
in QTIME=41	in QTIME=40	ESTABS_ES40	01592	8	N
	in QTIME=41	ESTABS_ES41	01600	8	N

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

	HAPIER 4. EMPLOYME			
Field name	Data dictionary reference name	Starting position	Field size	Data
in QTIME=42				type
	ESTABS_ES42	01608	8	
in QTIME=43	ESTABS_ES43	01616	8	N
in QTIME=44	ESTABS_ES44	01624	8	N
in QTIME=45	ESTABS_ES45	01632	8	N
in QTIME=46	ESTABS_ES46	01640	8	N
in QTIME=47	ESTABS_ES47	01648	8	N
in QTIME=48	ESTABS_ES48	01656	8	N
in QTIME=49	ESTABS_ES49	01664	8	N
in QTIME=5	ESTABS_ES5	01312	8	N
in QTIME=50	ESTABS_ES50	01672	8	N
in QTIME=51	ESTABS_ES51	01680	8	N
in QTIME=52	ESTABS_ES52	01688	8	N
in QTIME=53	ESTABS_ES53	01696	8	N
in QTIME=54	ESTABS_ES54	01704	8	N
in QTIME=55	ESTABS_ES55	01712	8	N
in QTIME=56	ESTABS_ES56	01720	8	N
in QTIME=57	ESTABS_ES57	01728	8	N
in QTIME=58	ESTABS_ES58	01736	8	N
in QTIME=59	ESTABS_ES59	01744	8	N
in QTIME=6	ESTABS_ES6	01320	8	N
in QTIME=60	ESTABS_ES60	01752	8	N
in QTIME=61	ESTABS_ES61	01760	8	N
in QTIME=62	ESTABS_ES62	01768	8	N
in QTIME=63	ESTABS_ES63	01776	8	N
in QTIME=64	ESTABS_ES64	01784	8	N
in QTIME=65	ESTABS_ES65	01792	8	N
in QTIME=66	ESTABS_ES66	01800	8	N
in QTIME=67	ESTABS_ES67	01808	8	N
in QTIME=68	ESTABS_ES68	01816	8	N
in QTIME=69	ESTABS_ES69	01824	8	N
in QTIME=7	ESTABS_ES7	01328	8	N
in QTIME=70	ESTABS_ES70	01832	8	N
in QTIME=71	ESTABS_ES70	01840	8	N
in QTIME=72	ESTABS_ES72	01848	8	N
in QTIME=73	ESTABS_ES73	01856	8	N
in QTIME=74	ESTABS_ES74	01864	8	N
in QTIME=75	ESTABS_ES75	01872	8	N
in QTIME=76	ESTABS_ES76	01872	8	N
in QTIME=77	ESTABS_ES77	01888	8	N
in QTIME=78	ESTABS_ES78	01896		N
			8	
in QTIME=79	ESTABS_ES79	01904	8	N
in QTIME=8	ESTABS_ES8	01336	8	N
in QTIME=80	ESTABS_ES80	01912	8	N
in QTIME=9	ESTABS_ES9	01344	8	N A /NI
=1 if positive employment in quarter i	ACTIVE_EMPLOY_ES	01957	80	A/N
Ever had positive employment	ACTIVE_EVER_ES	01920	8	N
First QTIME with positive employment	ACTIVE_BEG_QTR_ES	01936	3	N
Last QTIME with positive employment	ACTIVE_END_QTR_ES	01939	3	N
Maximum monthly employment in QTIME=1	EMP_ES1	00640	8	N
Maximum monthly employment in QTIME=10	EMP_ES10	00712	8	N

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

CHAPTER 4. EMPLOYMENT HISTORY FILES	(EHF)	G ₁ ···	T2: 13	D :
Field name	Data dictionary reference name	Starting position	Field size	Data
Maximum monthly employment in QTIME=11	EMP_ES11	00720	size 8	type N
Maximum monthly employment in QTIME=11 Maximum monthly employment in QTIME=12	EMP_ES11 EMP_ES12	00728	8	N
Maximum monthly employment in QTIME=12 Maximum monthly employment in QTIME=13	EMP_ES12 EMP_ES13	00736	8	N
Maximum monthly employment in QTIME=13 Maximum monthly employment in QTIME=14	EMP_ES14	00744	8	N
Maximum monthly employment in QTIME=15	EMP_ES14 EMP_ES15	00744	8	N
· - · - · -		00760	8	N
Maximum monthly employment in QTIME=16 Maximum monthly employment in QTIME=17	EMP_ES16	00768	8	N
Maximum monthly employment in QTIME=17 Maximum monthly employment in QTIME=18	EMP_ES17	00708	8	N
Maximum monthly employment in QTIME=18 Maximum monthly employment in QTIME=19	EMP_ES18 EMP_ES19	00778	8	N N
Maximum monthly employment in QTIME=19 Maximum monthly employment in QTIME=2	EMP_ES19 EMP_ES2	00648	8	N
v 1 v		00048 00792	8	N
Maximum monthly employment in QTIME=20	EMP_ES20			
Maximum monthly employment in QTIME=21	EMP_ES21	00800	8	N
Maximum monthly employment in QTIME=22	EMP_ES22	00808	8	N
Maximum monthly employment in QTIME=23	EMP_ES23	00816	8	N
Maximum monthly employment in QTIME=24	EMP_ES24	00824	8	N
Maximum monthly employment in QTIME=25	EMP_ES25	00832	8	N
Maximum monthly employment in QTIME=26	EMP_ES26	00840	8	N
Maximum monthly employment in QTIME=27	EMP_ES27	00848	8	N
Maximum monthly employment in QTIME=28	EMP_ES28	00856	8	N
Maximum monthly employment in QTIME=29	EMP_ES29	00864	8	N
Maximum monthly employment in QTIME=3	EMP_ES3	00656	8	N
Maximum monthly employment in QTIME=30	EMP_ES30	00872	8	N
Maximum monthly employment in QTIME=31	EMP_ES31	00880	8	N
Maximum monthly employment in QTIME=32	EMP_ES32	00888	8	N
Maximum monthly employment in QTIME=33	EMP_ES33	00896	8	N
Maximum monthly employment in QTIME=34	EMP_ES34	00904	8	N
Maximum monthly employment in QTIME=35	EMP_ES35	00912	8	N
Maximum monthly employment in QTIME=36	EMP_ES36	00920	8	N
Maximum monthly employment in QTIME=37	EMP_ES37	00928	8	N
Maximum monthly employment in QTIME=38	EMP_ES38	00936	8	N
Maximum monthly employment in QTIME=39	EMP_ES39	00944	8	N
Maximum monthly employment in QTIME=4	EMP_ES4	00664	8	N
Maximum monthly employment in QTIME=40	EMP_ES40	00952	8	N
Maximum monthly employment in QTIME=41	EMP_ES41	00960	8	N
Maximum monthly employment in QTIME=42	EMP_ES42	00968	8	N
Maximum monthly employment in QTIME=43	EMP_ES43	00976	8	N
Maximum monthly employment in QTIME=44	EMP_ES44	00984	8	N
Maximum monthly employment in QTIME=45	EMP_ES45	00992	8	N
Maximum monthly employment in QTIME=46	EMP_ES46	01000	8	N
Maximum monthly employment in QTIME=47	EMP_ES47	01008	8	N
Maximum monthly employment in QTIME=48	EMP_ES48	01016	8	N
Maximum monthly employment in QTIME=49	EMP_ES49	01024	8	N
Maximum monthly employment in QTIME=5	EMP_ES5	00672	8	N
Maximum monthly employment in QTIME=50	EMP_ES50	01032	8	N
Maximum monthly employment in QTIME=51	EMP_ES51	01040	8	N
Maximum monthly employment in QTIME=52	EMP_ES52	01048	8	N
Maximum monthly employment in QTIME=53	EMP_ES53	01056	8	N
Maximum monthly employment in QTIME=54	EMP_ES54	01064	8	N
Maximum monthly employment in QTIME=55	EMP_ES55	01072	8	N
	THE TENOUS	01072	O	ΙN
Maximum monthly employment in QTIME=56	EMP_ES56	01080	8	N

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	IAPTER 4. EMPLOYI			
Field name	Data dictionary	Starting	Field	Data
M · All l · Amn m · ·	reference name	position	size	type
Maximum monthly employment in QTIME=57	EMP_ES57	01088	8	N
Maximum monthly employment in QTIME=58	EMP_ES58	01096	8	N
Maximum monthly employment in QTIME=59	EMP_ES59	01104	8	N
Maximum monthly employment in QTIME=6	EMP_ES6	00680	8	N
Maximum monthly employment in QTIME=60	EMP_ES60	01112	8	N
Maximum monthly employment in QTIME=61	EMP_ES61	01120	8	N
Maximum monthly employment in QTIME=62	EMP_ES62	01128	8	N
Maximum monthly employment in QTIME=63	EMP_ES63	01136	8	N
Maximum monthly employment in QTIME=64	EMP_ES64	01144	8	N
Maximum monthly employment in QTIME=65	EMP_ES65	01152	8	N
Maximum monthly employment in QTIME=66	EMP_ES66	01160	8	N
Maximum monthly employment in QTIME=67	EMP_ES67	01168	8	N
Maximum monthly employment in QTIME=68	EMP_ES68	01176	8	N
Maximum monthly employment in QTIME=69	EMP_ES69	01184	8	N
Maximum monthly employment in QTIME=7	EMP_ES7	00688	8	N
Maximum monthly employment in QTIME=70	EMP_ES70	01192	8	N
Maximum monthly employment in QTIME=71	EMP_ES71	01200	8	N
Maximum monthly employment in QTIME=72	EMP_ES72	01208	8	N
Maximum monthly employment in QTIME=73	EMP_ES73	01216	8	N
Maximum monthly employment in QTIME=74	EMP_ES74	01224	8	N
Maximum monthly employment in QTIME=75	EMP_ES75	01232	8	N
Maximum monthly employment in QTIME=76	EMP_ES76	01240	8	N
Maximum monthly employment in QTIME=77	EMP_ES77	01248	8	N
Maximum monthly employment in QTIME=78	EMP_ES78	01256	8	N
Maximum monthly employment in QTIME=79	EMP_ES79	01264	8	N
Maximum monthly employment in QTIME=8	EMP_ES8	00696	8	N
Maximum monthly employment in QTIME=80	EMP_ES80	01272	8	N
Maximum monthly employment in QTIME=9	EMP_ES9	00704	8	N
Month 1 employment in QTIME=1	BPEMP_ES1	00000	8	N
Month 1 employment in QTIME=10	BPEMP_ES10	00072	8	N
Month 1 employment in QTIME=11	BPEMP_ES11	00080	8	N
Month 1 employment in QTIME=12	BPEMP_ES12	00088	8	N
Month 1 employment in QTIME=13	BPEMP_ES13	00096	8	N
Month 1 employment in QTIME=14	BPEMP_ES14	00104	8	N
Month 1 employment in QTIME=15	BPEMP_ES15	00112	8	N
Month 1 employment in QTIME=16	BPEMP_ES16	00120	8	N
Month 1 employment in QTIME=17	BPEMP_ES17	00128	8	N
Month 1 employment in QTIME=18	BPEMP_ES18	00136	8	N
Month 1 employment in QTIME=19	BPEMP_ES19	00144	8	N
Month 1 employment in QTIME=2	BPEMP_ES2	00008	8	N
Month 1 employment in QTIME=20	BPEMP_ES20	00152	8	N
Month 1 employment in QTIME=21	BPEMP_ES21	00160	8	N
Month 1 employment in QTIME=22	BPEMP_ES22	00168	8	N
Month 1 employment in QTIME=23	BPEMP_ES23	00176	8	N
Month 1 employment in QTIME=24	BPEMP_ES24	00184	8	N
Month 1 employment in QTIME=25	BPEMP_ES25	00192	8	N
Month 1 employment in QTIME=26	BPEMP_ES26	00200	8	N
Month 1 employment in QTIME=27	BPEMP_ES27	00208	8	N
Month 1 employment in QTIME=28	BPEMP_ES28	00208	8	N
Month 1 employment in QTIME=29	BPEMP_ES29	00210	8	N
month i omprognione in & initi-20	SI DIVII 2D020	00224	J	11

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

CHAPTER 4. EMPLOYMENT HISTORY F.				
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Month 1 employment in QTIME=3	BPEMP_ES3	00016	8	N
Month 1 employment in QTIME=30	BPEMP_ES30	00232	8	N
Month 1 employment in QTIME=31	BPEMP_ES31	00240	8	N
Month 1 employment in QTIME=32	BPEMP_ES 32	00248	8	N
Month 1 employment in QTIME=33	BPEMP_ES33	00256	8	N
Month 1 employment in QTIME=34	BPEMP_ES34	00264	8	N
Month 1 employment in QTIME=35	BPEMP_ES35	00272	8	N
Month 1 employment in QTIME=36	BPEMP_ES36	00280	8	N
Month 1 employment in QTIME=37	BPEMP_ES37	00288	8	N
Month 1 employment in QTIME=38	BPEMP_ES38	00296	8	N
Month 1 employment in QTIME=39	BPEMP_ES39	00304	8	N
Month 1 employment in QTIME=4	BPEMP_ES4	00024	8	N
Month 1 employment in QTIME=40	BPEMP_ES40	00312	8	N
Month 1 employment in QTIME=40	BPEMP_ES41	00320	8	N
Month 1 employment in QTIME=41 Month 1 employment in QTIME=42	BPEMP_ES42	00328	8	N
Month 1 employment in QTIME=42 Month 1 employment in QTIME=43		00328	8	N
- v •	BPEMP_ES43			
Month 1 employment in QTIME=44	BPEMP_ES44	00344	8	N
Month 1 employment in QTIME=45	BPEMP_ES45	00352	8	N
Month 1 employment in QTIME=46	BPEMP_ES46	00360	8	N
Month 1 employment in QTIME=47	BPEMP_ES47	00368	8	N
Month 1 employment in QTIME=48	BPEMP_ES48	00376	8	N
Month 1 employment in QTIME=49	BPEMP_ES49	00384	8	N
Month 1 employment in QTIME=5	BPEMP_ES5	00032	8	N
Month 1 employment in QTIME=50	$BPEMP_ES50$	00392	8	N
Month 1 employment in QTIME=51	BPEMP_ES51	00400	8	N
Month 1 employment in QTIME=52	BPEMP_ES 52	00408	8	N
Month 1 employment in QTIME=53	BPEMP_ES53	00416	8	N
Month 1 employment in QTIME=54	BPEMP_ES54	00424	8	N
Month 1 employment in QTIME=55	BPEMP_ES55	00432	8	N
Month 1 employment in QTIME=56	BPEMP_ES56	00440	8	N
Month 1 employment in QTIME=57	BPEMP_ES57	00448	8	N
Month 1 employment in QTIME=58	BPEMP_ES58	00456	8	N
Month 1 employment in QTIME=59	BPEMP_ES59	00464	8	N
Month 1 employment in QTIME=6	BPEMP_ES6	00040	8	N
Month 1 employment in QTIME=60	BPEMP_ES60	00472	8	N
Month 1 employment in QTIME=61	BPEMP_ES61	00480	8	N
Month 1 employment in QTIME=62	BPEMP_ES62	00488	8	N
Month 1 employment in QTIME=63	BPEMP_ES63	00496	8	N
Month 1 employment in QTIME=64	BPEMP_ES64	00504	8	N
Month 1 employment in QTIME=65	BPEMP_ES65	00512	8	N
Month 1 employment in QTIME=66	BPEMP_ES66	00520	8	N
Month 1 employment in QTIME=67	BPEMP_ES67	00520 00528	8	N
Month 1 employment in QTIME=68		00536	8	
	BPEMP_ES68	00544		N
Month 1 employment in QTIME=69	BPEMP_ES69		8	N
Month 1 employment in QTIME=7	BPEMP_ES7	00048	8	N
Month 1 employment in QTIME=70	BPEMP_ES70	00552	8	N
Month 1 employment in QTIME=71	BPEMP_ES71	00560	8	N
Month 1 employment in QTIME=72	BPEMP_ES72	00568	8	N
Month 1 employment in QTIME=73	BPEMP_ES73	00576	8	N
Month 1 employment in QTIME=74	BPEMP_ES74	00584	8	N

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Month 1 employment in QTIME=75	BPEMP_ES75	00592	8	N
Month 1 employment in QTIME=76	BPEMP_ES76	00600	8	N
Month 1 employment in QTIME=77	BPEMP_ES77	00608	8	N
Month 1 employment in QTIME=78	BPEMP_ES78	00616	8	N
Month 1 employment in QTIME=79	BPEMP_ES79	00624	8	N
Month 1 employment in QTIME=8	BPEMP_ES8	00056	8	N
Month 1 employment in QTIME=80	BPEMP_ES80	00632	8	N
Month 1 employment in QTIME=9	BPEMP_ES9	00064	8	N
Number of quarters with positive employment	ACTIVE_QTRS_ES	01942	3	N
SEIN was ever had multiple units	EVER_MU	01928	8	N
State Employer ID Number	SEIN	01945	12	A/N

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4.3.5 Summary information on datasets

Table 4.7: Number of observations for EHF

	Number of	Records	Filesize
Group	datafiles	(1000s)	(GB)
EHF	329	5,209,400	860

Table 4.8: List of data files for EHF, by state

File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)
	Sort order	,	,	
Alaska (ak)				
ehf_ak	1990Q1	2008Q4	9,600	< 5
	•	seinunit y	,	
ehf_ak_controltotals	1990Q1	2008Q4	< 100	< 5
	•	•	$np_month1 \ bls_t$	
ehf_ak_phf	1990Q1	$\frac{2008Q4}{2008Q4}$	$\frac{4,400}{4,400}$	$\frac{btat_wayc}{<5}$
cm_ax_pm	pik sein		4,400	< 0
ehf_ak_sein_employment	1990Q1	2008Q4	1,100	< 5
em_ak_sem_employment	•	•	1,100	< 0
1.0.1.1.0	sein yea		. 100	
ehf_ak_shf	2000Q1	2008Q4	< 100	< 5
	sein			
ehf_ak_uhf	2000Q1	2008Q4	< 100	< 5
	sein seir			
ehf_ak_uniqpik	1990Q1	2008Q4	1,200	< 5
	pik			
Alabama (al)				
ehf_al	2001Q1	2008Q4	25,600	< 5
	pik sein	seinunit y	iear	
ehf_al_controltotals	1990Q1	2008Q4	< 100	< 5
	•	•	np_month1 bls_t	
ehf_al_phf	2001Q1	2008Q4	12,300	< 5
om-ar-pm		seinunit	12,000	
ehf_al_sein_employment	2001Q1	2008Q4	2,600	< 5
ciii_dii_seiii_eiiipioy iiieiit	sein yea	•	2,000	< 0
ehf_al_shf	2001Q1	2008Q4	200	< 5
em_ar_sm	sein	2000Q4	200	< 0
ehf_al_uhf	$\frac{sem}{2001Q1}$	2008Q4	300	< 5
eni_ai_uni	•	•	300	< 0
1.6.1	sein sein		4.000	
ehf_al_uniqpik	2001Q1	2008Q4	4,000	< 5
	pik			
Arkansas (ar)				
ehf_ar	2002Q3	2008Q4	13,700	< 5
		$seinunit\ y$		
ehf_ar_controltotals	1990Q1	2008Q4	< 100	< 5
	year qua	arter bls_en	$np_month1\ bls_t$	$otal_wage$
ehf_ar_phf	2002Q3	2008Q4	6,600	< 5
•		sein unit	,	
ehf_ar_sein_employment	2002Q3	2008Q4	1,500	< 5
			1,000	(cor

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			. EMPLOYME	7111 11101 01
		– Continu		
File name	StartYQ	•	Obs. (1000s)	Size (GB)
	Sort order			
	sein year			
ehf_ar_shf	2002Q3	2008Q4	100	< 5
	sein			
ehf_ar_uhf	2002Q3	2008Q4	100	< 5
	sein sein			
ehf_ar_uniqpik	2002Q3	2008Q4	2,500	< 5
	pik			
rizona (az)				
ehf_az	1992Q1	2008Q4	68,700	< 5
	pik sein	seinunit y	ear	
ehf_az_controltotals	1990Q1	2008Q4	< 100	< 5
	•	•	np_month1 bls_t	$otal_wage$
ehf_az_phf	1992Q1	2008Q4	32,800	15
r	$pik \ sein$	•	- ,	
ehf_az_sein_employment	1992Q1	2008Q4	6,400	< 5
	sein year	•	0,200	
ehf_az_shf	$\frac{2004Q1}{2004Q1}$	2008Q4	200	< 5
	sein	2000 4, 1	200	\ 0
ehf_az_uhf	$\frac{3004Q1}{2004Q1}$	2008Q4	200	< 5
cm_az_um	sein sein	•	200	< 0
ehf_az_uniqpik	1992Q1	$\frac{2008Q4}{2008Q4}$	7,600	< 5
em_az_umqpik	-	2006Q4	7,000	< 9
-1:f:- ()	pik			
alifornia (ca)	100100	000004	441.000	0.5
ehf_ca	1991Q3	2008Q4	441,800	25
		seinunit y		
ehf_ca_controltotals	1990Q1	2008Q4	< 100	< 5
			np_month1 bls_t	
ehf_ca_phf	1991Q3	2008Q4	188,900	85
	$pik\ sein$			
ehf_ca_sein_employment	1991Q3	2008Q4	56,500	< 5
	sein year	•		
ehf_ca_shf	1991Q1	2008Q4	3,000	5
	sein			
ehf_ca_uhf	1991Q1	2008Q4	3,400	10
	sein sein	unit		
ehf_ca_uniqpik	1991Q3	2008Q4	41,700	< 5
	pik	•		
olorado (co)	1			
ehf_co	1990Q1	2008Q4	69,000	< 5
	•	seinunit y		
ehf_co_controltotals	1990Q1	$\frac{2008Q4}{2008Q4}$	< 100	< 5
			$np_month1 \ bls_t$	
ehf_co_phf	$\frac{gcar qaa}{1990Q1}$	2008Q4	692000000000000000000000000000000000000	15
ош-00-рш	pik sein	•	52,500	10
ehf_co_sein_employment	1990Q1	$\frac{semunt}{2008Q4}$	8,000	< 5
em_co_sem_employment	-	•	0,000	< 9
ohf oo shf	sein year		F00	< 5
ehf_co_shf	1990Q1 $sein$	2008Q4	500	< 5
	com			

CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

File name	Table 4.8 StartYQ	– Continu EndYQ	Obs. (1000s)	Size (GB)
пе паше	Start Y Q Sort order		ODS. (1000S)	Size (GD)
ehf_co_uhf	1990Q1	2008Q4	600	< 5
III_CO_UIII	sein sein		000	< 0
hf_co_uniqpik	1990Q1	$\frac{unit}{2008Q4}$	8,000	< 5
ли-со-шпартк	-	2000 Q 4	0,000	< 9
awara (da)	pik			
aware (de)	1000€2	200904	7 200	. F
ehf_de	1998Q3	2008Q4	7,300	< 5
ehf_de_controltotals	_	$\frac{seinunit\ y}{2008Q4}$	$\frac{vear}{< 100}$	< 5
m_ue_comtrottotals	1990Q1	•		
hf do phf			$\frac{np_month1\ bls_t}{2\ 200}$	
ehf_de_phf	1998Q3	2008Q4	3,200	< 5
lof do gair1	pik sein s		000	
ehf_de_sein_employment	1998Q3	2008Q4	900	< 5
1 (1 1 (sein year		. 100	
ehf_de_shf	1997Q1	2008Q4	< 100	< 5
1 (1 1 (sein	200004	. 100	
ehf_de_uhf	1997Q1		< 100	< 5
1 (1	sein sein		4 400	
hf_de_uniqpik	1998Q3	2008Q4	1,100	< 5
.1. (0.)	pik			
rida (fl)	40000	20626	205	
ehf_fl	1992Q4	2008Q4	208,800	10
1.0.0		seinunit y		
hf_fl_controltotals	1990Q1	2008Q4	< 100	< 5
1.0.0.1.0			np_month1 bls_t	
hf_fl_phf	1992Q4	2008Q4	99,200	40
	pik sein s			
ehf_fl_sein_employment	1992Q4	-	22,100	< 5
	sein year			
hf_fl_shf	1989Q1	2008Q4	1,500	< 5
	sein			
hf_fl_uhf	1989Q1	-	1,900	< 5
	sein sein			
ehf_fl_uniqpik	1992Q4	2008Q4	22,800	< 5
	PIK			
orgia (ga)				
ehf_ga	1994Q1	2008Q4	99,400	5
	-	seinunit y		
hf_ga_controltotals	1990Q1	2008Q4	< 100	< 5
	year quar	rter bls_en	$np_month1\ bls_t$	$otal_wage$
hf_ga_phf	1994Q1	2008Q4	45,700	20
	pik sein s	sein unit		
hf_ga_sein_employment	1994Q1	2008Q4	9,900	< 5
- •	sein year	•	,	
hf_ga_shf	1998Q1	2008Q4	500	< 5
	sein			. •
hf_ga_uhf	1998Q1	2008Q4	600	< 5
	-	•	230	. •
9	sein sein	unit		

 $\begin{array}{c} LEHD\text{-}OVERVIEW\text{-}S2008 \\ Revision: 432 \end{array}$

			EMPLOYME	7111 11101 0
	Table 4.8 –			a. (a=:
File name		EndYQ	Obs. (1000s)	Size (GB)
	Sort order			
/3 \	pik			
waii (hi)	100501	200004	10 700	_
ehf_hi	-	2008Q4	10,500	< 5
1.61:	pik sein se			
ehf_hi_controltotals	•	2008Q4	< 100	< 5
1.01.10			np_month1 bls_t	
ehf_hi_phf	-	2008Q4	4,100	< 5
1.61	pik sein se		1 100	
ehf_hi_sein_employment	•	2008Q4	1,400	< 5
1 (1 , 1 (sein year	2000001	: 100	
ehf_hi_shf		2008Q4	< 100	< 5
1.6.1 . 1.6	sein	200001	400	
ehf_hi_uhf	•	2008Q4	< 100	< 5
1 (1 · · · · · · · · · · · · · · · · ·	sein seinu		4.400	
ehf_hi_uniqpik		2008Q4	1,400	< 5
	pik			
va (ia)	100-50:			
ehf_ia		2008Q4	25,400	< 5
	pik sein se			
ehf_ia_controltotals	•	2008Q4	< 100	< 5
			np_month1 bls_t	
ehf_ia_phf	•	2008Q4	10,200	< 5
	pik sein se			
ehf_ia_sein_employment	1998Q4 2	2008Q4	2,700	< 5
	sein year			
ehf_ia_shf	1990Q1 2	2008Q4	200	< 5
	sein			
ehf_ia_uhf	•	2008Q4	300	< 5
	sein seinu	nit		
ehf_ia_uniqpik	1998Q4 2	2008Q4	3,200	< 5
	pik			
ho (id)				
ehf_id	1990Q1 2	2008Q4	18,800	< 5
	pik sein se	einunit y	ear	
ehf_id_controltotals		2008Q4	< 100	< 5
	year quart	er bls_en	$np_month1\ bls_t$	$otal_wage$
ehf_id_phf	1990Q1 2	2008Q4	8,600	< 5
	pik sein se	einunit		
ehf_id_sein_employment	1990Q1 2	2008Q4	2,500	< 5
- "	sein year	-	•	
ehf_id_shf		2008Q4	100	< 5
	sein	•		
ehf_id_uhf		2008Q4	200	< 5
	sein seinu	•		
ehf_id_uniqpik		2008Q4	2,200	< 5
	pik		2,230	. 0
nois (il)	Por			
ehf_il	1990Q1 2	2008Q4	177,900	10
/111-11	1000Q1 4	-000Q+	111,000	10

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 $\begin{array}{c} \textit{LEHD-OVERVIEW-S2008} \\ \textit{Revision}: 432 \end{array}$

CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

ile name	Table 4.8 – C StartYQ E		s. (1000s)	Size (GB)
	Sort order		(=====)	(42)
	pik sein sei	nunit year		
hf_il_controltotals		008Q4	< 100	< 5
		$r bls_emp_m$		
hf_il_phf		008Q4	70,800	35
1	pik sein sei		- ,	30
hf_il_sein_employment		008Q4	18,300	< 5
	sein year	- -	- , = = =	. •
hf_il_shf		008Q4	900	< 5
	sein			
hf_il_uhf		008Q4	1,000	< 5
	sein seinun	-	1,000	\ 0
hf_il_uniqpik		008Q4	16,200	< 5
	PIK		10,200	\ 0
ana (in)				
hf_in	1990Q1 20	008Q4	91,700	< 5
	pik sein sei	-	01,100	\ 0
hf_in_controltotals		7000000000000000000000000000000000000	< 100	< 5
111_111_001101 010000113	•	$r bls_emp_m$		
hf_in_phf		008Q4	$\frac{39,200}{39,200}$	$\frac{otat_aage}{20}$
ш-ш-рш	pik sein sei	-	53,200	20
hf_in_sein_employment		008Q4	8,300	< 5
m-m-sem-employmem	sein year	700 % 4	0,500	< 0
hf_in_shf		008Q4	300	< 5
111_111_5111	sein	700&±	300	\ J
hf_in_uhf	sein 1998Q1 20	00804	400	< 5
III_III_UIII	sein seinun	-	400	< 9
hf in unionil			8 000	< 5
hf_in_uniqpik	•	008Q4	8,000	< 5
/1)	pik			
sas (ks)	100001 0	20004	41 100	
hf_ks	•	008Q4	41,100	< 5
L. C. 1	pik sein sei		. 100	
hf_ks_controltotals	-	008Q4	< 100	< 5
		$r bls_emp_m$		
hf_ks_phf	•	008Q4	17,800	10
1.6.1	pik sein sei		4 = 0.0	
hf_ks_sein_employment	•	008Q4	4,700	< 5
	sein year			
hf_ks_shf	•	008Q4	200	< 5
	sein			
hf_ks_uhf	•	008Q4	300	< 5
	sein seinun			
hf_ks_uniqpik		008Q4	4,600	< 5
	pik			
tucky (ky)		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	·
hf_ky	1996Q4 20	008Q4	37,900	< 5
	pik sein sei	nunit year		
hf_ky_controltotals	1990Q1 20	008Q4	< 100	< 5
	year quarte	$r bls_emp_m$	$onth1$ bls_t	$otal_wage$

 $\begin{array}{c} LEHD\text{-}OVERVIEW\text{-}S2008 \\ Revision: 432 \end{array}$

				ENT HISTO.
	Table 4.8			
File name	StartYQ	EndYQ	Obs. $(1000s)$	Size (GB)
	Sort order			
ehf_ky_phf	1996Q4	2008Q4	16,600	5
	$pik\ sein$	seinunit		
ehf_ky_sein_employment	1996Q4	2008Q4	3,600	< 5
	sein year	•		
ehf_ky_shf	2001Q1	2008Q4	200	< 5
	sein			
ehf_ky_uhf	2001Q1	2008Q4	200	< 5
v	sein sein			
ehf_ky_uniqpik	1996Q4	2008Q4	4,600	< 5
	pik	_ 0 0 0 0 0 -	_, ~ ~ ~	
uisiana (la)	Por			
ehf_la	1990Q1	2008Q4	58,600	< 5
em_ia	•			< 0
ehf_la_controltotals	рік sein 1990Q1	$\frac{seinunit\ y}{2008Q4}$	< 100	< 5
em_ia_controllotals	•	•		
-1. f. 11. f			$np_month1 \ bls_t$	
ehf_la_phf	1990Q1	2008Q4	26,000	10
1.61	pik sein			
ehf_la_sein_employment	1990Q1	-	6,000	< 5
	sein year			
ehf_la_shf	1990Q1	2008Q4	300	< 5
	sein			
ehf_la_uhf	1990Q1	2008Q4	400	< 5
	sein sein	unit		
ehf_la_uniqpik	1990Q1	2008Q4	5,800	< 5
	pik	·	,	
aryland (md)	1			
, (
	198502	200804	88 000	< 5
ehf_md	1985Q2	2008Q4	88,000	< 5
ehf_md	pik sein	seinunit y	ear	
	<i>pik sein</i> 1990Q1	$\frac{seinunit\ y}{2008Q4}$	<i>ear</i> < 100	< 5
ehf_md_controltotals	pik sein 1990Q1 year qua	seinunit y 2008Q4 rter bls_en	ear < 100 np_month1 bls_t	< 5
ehf_md	pik sein 1990Q1 year qua 1985Q2	seinunit y 2008Q4 rter bls_en 2008Q4	<i>ear</i> < 100	< 5
ehf_md_controltotals ehf_md_phf	pik sein 1990Q1 year qua 1985Q2 pik sein	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit	$\begin{array}{c} ear \\ < 100 \\ np_month1 \ bls_t \\ \hline 37,200 \end{array}$	<pre>cotal_wage 20</pre>
ehf_md_controltotals	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2	$\begin{array}{c} seinunit \ y \\ \hline 2008Q4 \\ rter \ bls_en \\ \hline 2008Q4 \\ seinunit \\ \hline 2008Q4 \\ \end{array}$	ear < 100 np_month1 bls_t	< 5
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year	$\frac{seinunit\ y}{2008\mathrm{Q4}}$ $\frac{rter\ bls_en}{2008\mathrm{Q4}}$ $\frac{seinunit}{2008\mathrm{Q4}}$	ear < 100 np_month1 bls_t 37,200 9,700	
ehf_md_controltotals ehf_md_phf	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1	$\begin{array}{c} seinunit \ y \\ \hline 2008Q4 \\ rter \ bls_en \\ \hline 2008Q4 \\ seinunit \\ \hline 2008Q4 \\ \end{array}$	$\begin{array}{c} ear \\ < 100 \\ np_month1 \ bls_t \\ \hline 37,200 \end{array}$	<pre>cotal_wage 20</pre>
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment ehf_md_shf	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1 sein	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit 2008Q4	ear < 100 np_month1 bls_t 37,200 9,700 400	<pre></pre>
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1 sein 1990Q1	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit 2008Q4 	ear < 100 np_month1 bls_t 37,200 9,700	
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment ehf_md_shf ehf_md_uhf	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1 sein	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit 2008Q4	ear < 100 np_month1 bls_t 37,200 9,700 400	<pre></pre>
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment ehf_md_shf	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1 sein 1990Q1	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit 2008Q4 	ear < 100 np_month1 bls_t 37,200 9,700 400	<pre></pre>
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment ehf_md_shf ehf_md_uhf	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1 sein 1990Q1 sein sein	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit 2008Q4	ear < 100 np_month1 bls_t 37,200 9,700 400	<pre></pre>
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment ehf_md_shf ehf_md_uhf ehf_md_uniqpik	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1 sein sein 1985Q2	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit 2008Q4	ear < 100 np_month1 bls_t 37,200 9,700 400	<pre></pre>
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment ehf_md_shf ehf_md_uhf ehf_md_uniqpik ehf_md_uniqpik	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1 sein 1990Q1 sein sein 1985Q2 PIK	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit 2008Q4 2008Q4 2008Q4 unit 2008Q4	ear < 100 np_month1 bls_t 37,200 9,700 400 500 8,600	< 5 cotal_wage
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment ehf_md_shf ehf_md_uhf ehf_md_uniqpik	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1 sein 1990Q1 sein sein 1985Q2 PIK	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit 2008Q4 	ear < 100 np_month1 bls_t 37,200 9,700 400 500 8,600	<pre></pre>
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment ehf_md_shf ehf_md_uhf ehf_md_uniqpik aine (me) ehf_me	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1 sein 1990Q1 sein sein 1985Q2 PIK 1996Q1 pik sein	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit 2008Q4	ear < 100 $np_month1 \ bls_t$ $= 37,200$ $= 9,700$ $= 400$ $= 500$ $= 8,600$ $= 12,800$ $= ear$	<pre></pre>
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment ehf_md_shf ehf_md_uhf ehf_md_uniqpik ehf_md_uniqpik	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1 sein sein 1985Q2 PIK 1996Q1 pik sein 1990Q1	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit 2008Q4 2008Q4 2008Q4 unit 2008Q4 seinunit y 2008Q4	$ \begin{array}{r} ear \\ < 100 \\ np_month1 \ bls_t \\ \hline 37,200 \\ \hline 9,700 \\ \hline 400 \\ \hline 500 \\ \hline 8,600 \\ \hline 12,800 \\ ear \\ < 100 \\ \hline \end{array} $	<pre></pre>
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment ehf_md_shf ehf_md_uhf ehf_md_uniqpik aine (me) ehf_me ehf_me_controltotals	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1 sein sein 1985Q2 PIK 1996Q1 pik sein 1990Q1 year qua	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit 2008Q4 2008Q4 2008Q4 unit 2008Q4 seinunit y 2008Q4 rter bls_en	$\begin{array}{c} ear \\ < 100 \\ np_month1 \ bls_t \\ \hline 37,200 \\ \hline \\ 9,700 \\ \hline \\ 400 \\ \hline \\ 500 \\ \hline \\ 8,600 \\ \hline \\ 12,800 \\ ear \\ < 100 \\ np_month1 \ bls_t \\ \end{array}$	<pre></pre>
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment ehf_md_shf ehf_md_uhf ehf_md_uniqpik aine (me) ehf_me	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1 sein sein 1985Q2 PIK 1996Q1 pik sein 1990Q1 year qua 1996Q1	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit 2008Q4 2008Q4 2008Q4 unit 2008Q4 seinunit y 2008Q4 rter bls_en 2008Q4	$ \begin{array}{r} ear \\ < 100 \\ np_month1 \ bls_t \\ \hline 37,200 \\ \hline 9,700 \\ \hline 400 \\ \hline 500 \\ \hline 8,600 \\ \hline 12,800 \\ ear \\ < 100 \\ \hline \end{array} $	<pre></pre>
ehf_md_controltotals ehf_md_phf ehf_md_sein_employment ehf_md_shf ehf_md_uhf ehf_md_uniqpik aine (me) ehf_me ehf_me_controltotals	pik sein 1990Q1 year qua 1985Q2 pik sein 1985Q2 sein year 1990Q1 sein sein 1985Q2 PIK 1996Q1 pik sein 1990Q1 year qua	seinunit y 2008Q4 rter bls_en 2008Q4 seinunit 2008Q4 2008Q4 2008Q4 unit 2008Q4 seinunit y 2008Q4 rter bls_en 2008Q4	$\begin{array}{c} ear \\ < 100 \\ np_month1 \ bls_t \\ \hline 37,200 \\ \hline \\ 9,700 \\ \hline \\ 400 \\ \hline \\ 500 \\ \hline \\ 8,600 \\ \hline \\ 12,800 \\ ear \\ < 100 \\ np_month1 \ bls_t \\ \end{array}$	<pre></pre>

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

File name	StartYQ	– Continu EndYQ	Obs. (1000s)	Size (GB)
110 1101110	Sort order		0.55. (10005)	Sille (GD)
	sein year			
ehf_me_shf	1996Q1	2008Q4	100	< 5
	sein	_0004		, ,
ehf_me_uhf	1996Q1	2008Q4	100	< 5
	sein sein	•		, ,
ehf_me_uniqpik	1996Q1	2008Q4	1,500	< 5
	pik	_ 0 0 0 0 0 -	_,000	, ,
chigan (mi)	<i>I</i>			
ehf_mi	1998Q1	2008Q4	78,100	< 5
O-1111111	•	seinunit y		
ehf_mi_controltotals	1990Q1	$\frac{2008Q4}{}$	< 100	< 5
	•	•	np_month1 bls_to	
ehf_mi_phf	1998Q1	$\frac{2008Q4}{2008Q4}$	$\frac{32,200}{32,200}$	10
ош-ш-рш	pik sein	•	02,200	10
ehf_mi_sein_employment	1998Q1	2008Q4	7,700	< 5
om_m_om_omproyment	sein year	•	1,100	_ 0
ehf_mi_shf	1998Q1	2008Q4	500	< 5
O111_1111_0111	sein	2000 % ±	500	_ 0
ehf_mi_uhf	1998Q1	2008Q4	600	< 5
O111_1111_U111	sein sein	•	000	\ 0
ehf_mi_uniqpik	1998Q1	$\frac{2008Q4}{}$	8,800	< 5
ли-ш-ишчрік	pik	200064	0,000	< 0
nnesota (mn)	Pin			
ehf_mn	1994Q3	2008Q4	63,100	< 5
C111_11111	•	-		< 0
ehf_mn_controltotals	$\frac{pik\ sein}{1990Q1}$	$\frac{seinunit\ y}{2008Q4}$	$\frac{ear}{< 100}$	< 5
zm_mm_contronotals	•	•		
ahf man mhf			$\frac{np_month1\ bls_to}{26\ 100}$	
ehf_mn_phf	1994Q3	2008Q4	26,100	10
1.6 . 1	pik sein		0.000	
ehf_mn_sein_employment	1994Q3	-	6,300	< 5
-1. f1. f	sein year		900	
ehf_mn_shf	1994Q3	2008Q4	300	< 5
1.0 1.0	sein	2000004	100	
ehf_mn_uhf	1994Q3	2008Q4	400	< 5
1.0	sein sein			
ehf_mn_uniqpik	1994Q3	2008Q4	5,800	< 5
. (pik			
ssouri (mo)				
ehf_mo	1990Q1	2008Q4	83,900	< 5
		seinunit y		
ehf_mo_controltotals	1990Q1	2008Q4	< 100	< 5
			np_month1 bls_te	
ehf_mo_phf	1990Q1	2008Q4	35,900	15
	$pik\ sein$	seinunit		
ehf_mo_sein_employment	1990Q1	2008Q4	9,000	< 5
	sein year	r		
ehf_mo_shf	1990Q1	2008Q4	500	< 5
	sein	-		

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	CH	APTER~4	. EMPLOYME	ENT HISTORY FI
	Table 4.8	– Continu	ıed	
File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)
	Sort order	•	, ,	<u> </u>
ehf_mo_uhf	1990Q1	2008Q4	600	< 5
	sein sein			
ehf_mo_uniqpik	1990Q1	2008Q4	8,000	< 5
11	pik	·	,	
Mississippi (ms)	1			
ehf_ms	2003Q3	2008Q4	11,000	< 5
	•	seinunit y		~ ~
ehf_ms_controltotals	1990Q1	$\frac{3008Q4}{2008Q4}$	< 100	< 5
cm_ms_controttotals	•	•	$np_month1 \ bls_t$	
ehf_ms_phf	$\frac{year qua}{2003Q3}$	$\frac{7008Q4}{2008Q4}$	$\frac{mp_momm1}{5,300}$	$\frac{\textit{otai_waye}}{<5}$
em_ms_pm	•	•	5,500	< 0
1.0	pik sein		1 100	
ehf_ms_sein_employment	2003Q3	2008Q4	1,100	< 5
	sein year		100	
ehf_ms_shf	2003Q3	2008Q4	< 100	< 5
	sein			
ehf_ms_uhf	2003Q3	2008Q4	100	< 5
	sein sein	unit		
ehf_ms_uniqpik	2003Q3	2008Q4	2,300	< 5
	pik			
Montana (mt)				
ehf_mt	1993Q1	2008Q4	11,100	< 5
· · · · · · · · · · · · · · · · · · ·	•	seinunit y		
ehf_mt_controltotals	1990Q1	2008Q4	< 100	< 5
	•	•	np_month1 bls_t	
$-{\mathrm{ehf_mt_phf}}$	1993Q1	2008Q4	4,900	$\frac{5}{5}$
СШ-Шо-рш	pik sein	•	4,500	\ 0
ehf_mt_sein_employment	1993Q1	$\frac{3einann}{2008Q4}$	1,800	< 5
em_mr_sem_employment	•	•	1,000	< 0
1.6 4 1.6	sein year		. 100	
ehf_mt_shf	1993Q1	2008Q4	< 100	< 5
1.0	sein	200001	400	
ehf_mt_uhf	1993Q1	2008Q4	100	< 5
	sein sein			
ehf_mt_uniqpik	1993Q1	2008Q4	1,300	< 5
	pik			
North Carolina (nc)				
ehf_nc	1991Q1	2008Q1	116,100	5
	pik sein	seinunit y	vear	
ehf_nc_controltotals	1990Q1		< 100	< 5
ehf_nc_phf	1991Q1	2008Q1	52,300	25
•	pik sein	•	,	
ehf_nc_sein_employment	1991Q1	2008Q1	10,800	< 5
	sein year	•	_0,000	
ehf_nc_shf	1990Q1	2008Q1	600	< 5
	sein	2000@1	550	\ 0
ehf_nc_uhf	1990Q1	2008Q1	700	< 5
em_nc_um			700	< 0
-1-f · · · · · · · · · · · · · · · ·	sein sein		11 000	
enr_nc_uniqpik		2008Q1	11,600	< 5
	рік			
ehf_nc_uniqpik	1991Q1 pik	2008Q1	11,600	< 5 (co

CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

ile name	Table 4.8 – Continued StartYQ EndYQ	Obs. (1000s)	Size (GB)
	Sort order	(11111)	. (-)
th Dakota (nd)			
hf_nd	1998Q1 2008Q4	6,000	< 5
	pik sein seinunit yed	ar	
hf_nd_controltotals	1990Q1 2008Q4	< 100	< 5
	year quarter bls_emp	o_month1 bls_te	$otal_wage$
hf_nd_phf	1998Q1 2008Q4	2,500	< 5
	pik sein seinunit		
hf_nd_sein_employment	1998Q1 2008Q4	800	< 5
	$sein\ year$		
hf_nd_shf	1998Q1 2008Q4	< 100	< 5
	sein		
hf_nd_uhf	1998Q1 2008Q4	< 100	< 5
	sein seinunit		
hf_nd_uniqpik	1998Q1 2008Q4	800	< 5
	pik		
raska (ne)			
hf_ne `	1999Q1 2008Q4	14,800	< 5
	pik sein seinunit yed	ar	
hf_ne_controltotals	1990Q1 2008Q4	< 100	< 5
	year quarter bls_emp	o_month1 bls_te	$otal_wage$
hf_ne_phf	1999Q1 2008Q4	6,400	< 5
1	pik sein seinunit	,	
hf_ne_sein_employment	1999Q1 2008Q4	1,700	< 5
1 /	sein year	,	
hf_ne_shf	1999Q1 2008Q4	< 100	< 5
	sein		
hf_ne_uhf	1999Q1 2008Q4	100	< 5
	sein seinunit		
hf_ne_uniqpik	1999Q1 2008Q4	2,000	< 5
11	pik	,	
Jersey (nj)			
hf_nj	1996Q1 2008Q4	79,200	< 5
v	pik sein seinunit yed		. •
hf_nj_controltotals	1990Q1 2008Q4	< 100	< 5
,	year quarter bls_emp		
hf_nj_phf	1996Q1 2008Q4	32,100	10
<i>3</i> 1	pik sein seinunit	,	
hf_nj_sein_employment	1996Q1 2008Q4	9,600	< 5
J	sein year	5,550	. 0
hf_nj_shf	1995Q1 2008Q4	600	< 5
- J=	sein	000	` `
hf_nj_uhf	1995Q1 2008Q4	700	< 5
J 	sein seinunit	.00	. 0
hf_nj_uniqpik	1996Q1 2008Q4	10,000	< 5
J-~1F	pik	10,000	. 0
Mexico (nm)	P or o		
michico (mm)		40.000	< 5
$\mathrm{hf_nm}$	1995Q3 2008Q4	18,600	/ h

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	01111		EMII EO I ME	NI HISTORY
	Table 4.8 –			
File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)
	$Sort\ order$			
$ehf_nm_controltotals$		2008Q4	< 100	< 5
	year quart	$ter\ bls_emp$	_month1 bls_te	$otal_wage$
ehf_nm_phf	1995Q3	2008Q4	8,700	< 5
	pik sein se	einunit		
ehf_nm_sein_employment	1995Q3	2008Q4	2,000	< 5
	sein year			
ehf_nm_shf		2008Q4	100	< 5
	sein			
ehf_nm_uhf	1990Q1	200804	200	< 5
CIII-IIIII-UIII	sein seinu	-	200	\ 0
ehf_nm_uniqpik		$\frac{2008Q4}{2008Q4}$	2,400	< 5
em_mm_umqpik	-	2000024	2,400	< 0
Nove do (ross)	pik			
Nevada (nv)	100001	000004	00.700	
$\mathrm{ehf}_{-}\mathrm{nv}$	-	2008Q4	23,700	< 5
		einunit yea		
ehf_nv_controltotals	•	2008Q4	< 100	< 5
			_month1 bls_te	
ehf_nv_phf		2008Q4	11,900	< 5
	pik sein se	einunit		
ehf_nv_sein_employment	1998Q1	2008Q4	2,000	< 5
	sein year			
ehf_nv_shf		2008Q4	100	< 5
	sein	· ·		
ehf_nv_uhf	1998Q1	2008Q4	200	< 5
	sein seinu	-		
ehf_nv_uniqpik		2008Q4	3,500	< 5
ciii-iiv -uiiiqpiii	pik	2000 46 1	3,500	\ 0
New York (ny)	Pill			
ehf_ny	1995Q1	2008Q4	107 100	10
em_my			197,100	10
1.6		einunit yea		
ehf_ny_controltotals	100001	200001		
v	•	2008Q4	< 100	< 5
	year quart	ter bls_emp	< 100 -month1 bls_te	$otal_wage$
ehf_ny_phf	year quart	ter bls_emp 2008Q4	< 100	
ehf_ny_phf	year quart 1995Q1 pik sein se	ter bls_emp 2008Q4 einunit	< 100 2_month1 bls_te 79,700	$\frac{otal_wage}{30}$
	year quart 1995Q1 pik sein se	ter bls_emp 2008Q4	< 100 -month1 bls_te	$otal_wage$
ehf_ny_phf	year quart 1995Q1 pik sein se	ter bls_emp 2008Q4 einunit	< 100 2_month1 bls_te 79,700	$\frac{otal_wage}{30}$
ehf_ny_phf	year quart 1995Q1 pik sein se 1995Q1 sein year	ter bls_emp 2008Q4 einunit	< 100 2_month1 bls_te 79,700	$\frac{otal_wage}{30}$
ehf_ny_phf ehf_ny_sein_employment	year quart 1995Q1 pik sein se 1995Q1 sein year	ter bls_emp 2008Q4 einunit 2008Q4	< 100 2_month1 bls_te 79,700 23,300	
ehf_ny_phf ehf_ny_sein_employment ehf_ny_shf	year quart 1995Q1 pik sein se 1995Q1 sein year 1990Q1 sein	ter bls_emp 2008Q4 einunit 2008Q4	< 100 2_month1 bls_te 79,700 23,300 1,500	
ehf_ny_phf ehf_ny_sein_employment	year quart 1995Q1 pik sein se 1995Q1 sein year 1990Q1 sein 1990Q1	ter bls_emp 2008Q4 einunit 2008Q4 2008Q4	< 100 2_month1 bls_te 79,700 23,300	
ehf_ny_sein_employment ehf_ny_shf ehf_ny_uhf	year quart 1995Q1 pik sein se 1995Q1 sein year 1990Q1 sein 1990Q1 sein seinu	ter bls_emp 2008Q4 einunit 2008Q4 2008Q4 2008Q4 nit	< 100 2_month1 bls_te 79,700 23,300 1,500 1,700	
ehf_ny_phf ehf_ny_sein_employment ehf_ny_shf	year quart 1995Q1 pik sein sei 1995Q1 sein year 1990Q1 sein 1990Q1 sein seinu 1995Q1	ter bls_emp 2008Q4 einunit 2008Q4 2008Q4	< 100 2_month1 bls_te 79,700 23,300 1,500	
ehf_ny_phf ehf_ny_sein_employment ehf_ny_shf ehf_ny_uhf ehf_ny_uniqpik	year quart 1995Q1 pik sein se 1995Q1 sein year 1990Q1 sein 1990Q1 sein seinu	ter bls_emp 2008Q4 einunit 2008Q4 2008Q4 2008Q4 nit	< 100 2_month1 bls_te 79,700 23,300 1,500 1,700	
ehf_ny_phf ehf_ny_sein_employment ehf_ny_shf ehf_ny_uhf ehf_ny_uniqpik Ohio (oh)	year quart 1995Q1 pik sein sei 1995Q1 sein year 1990Q1 sein 1990Q1 sein seinu 1995Q1 pik	ter bls_emp 2008Q4 einunit 2008Q4 2008Q4 2008Q4 nit 2008Q4	< 100 2_month1 bls_te 79,700 23,300 1,500 1,700 21,900	
ehf_ny_phf ehf_ny_sein_employment ehf_ny_shf ehf_ny_uhf ehf_ny_uniqpik	year quart 1995Q1 pik sein se 1995Q1 sein year 1990Q1 sein 1990Q1 sein seinu 1995Q1 pik	ter bls_emp 2008Q4 einunit 2008Q4 2008Q4 2008Q4 nit 2008Q4	< 100 2.month1 bls_te 79,700 23,300 1,500 1,700 21,900 79,400	
ehf_ny_phf ehf_ny_sein_employment ehf_ny_shf ehf_ny_uhf ehf_ny_uniqpik Ohio (oh) ehf_oh	year quart 1995Q1 pik sein se 1995Q1 sein year 1990Q1 sein seinu 1995Q1 pik 2000Q1 pik sein seins	ter bls_emp 2008Q4 einunit 2008Q4 2008Q4 2008Q4 nit 2008Q4 einunit yea	< 100 2-month1 bls_te 79,700 23,300 1,500 1,700 21,900 79,400	
ehf_ny_phf ehf_ny_sein_employment ehf_ny_shf ehf_ny_uhf ehf_ny_uniqpik Ohio (oh)	year quart 1995Q1 pik sein se 1995Q1 sein year 1990Q1 sein seinu 1995Q1 pik 2000Q1 pik sein se 1990Q1	ter bls_emp 2008Q4 einunit 2008Q4 2008Q4 2008Q4 enit 2008Q4 2008Q4 einunit yea 2008Q4	< 100 -month1 bls_te 79,700 23,300 1,500 1,700 21,900 79,400 -r < 100	
ehf_ny_phf ehf_ny_sein_employment ehf_ny_shf ehf_ny_uhf ehf_ny_uniqpik Ohio (oh) ehf_oh	year quart 1995Q1 pik sein sei 1995Q1 sein year 1990Q1 sein seinu 1995Q1 pik 2000Q1 pik sein se 1990Q1 year quart	ter bls_emp 2008Q4 einunit 2008Q4 2008Q4 2008Q4 enit 2008Q4 2008Q4 einunit yea 2008Q4	< 100 2-month1 bls_te 79,700 23,300 1,500 1,700 21,900 79,400	

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

File name	StartYQ	ContinuEndYQ	Obs. (1000s)	Size (GB)
. 110 1101110	Sort order		355. (10005)	Size (GD)
	pik sein			
ehf_oh_sein_employment	$\frac{2000\mathrm{Q1}}{2000\mathrm{Q1}}$	2008Q4	7,400	< 5
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	sein year	-	.,100	
ehf_oh_shf	2000Q1	2008Q4	400	< 5
	sein	2000@1	100	\ 0
ehf_oh_uhf	2000Q1	2008Q4	600	< 5
	sein sein	•	000	\ 0
ehf_oh_uniqpik	2000Q1	2008Q4	10,000	< 5
on-uniqon	pik	2000@1	10,000	\ 0
ahoma (ok)	Pin			
ehf_ok	2000Q1	2008Q4	23,100	< 5
SHI_OK	-	seinunit y		< 0
ehf_ok_controltotals	1990Q1	$\frac{\text{semann } y}{2008\text{Q4}}$	< 100	< 5
an_ox_controttats	•	•		
ehf_ok_phf	2000Q1	2008Q4	$\frac{np_month1\ bls_t}{11,300}$	$\frac{oiai_wage}{<5}$
еш_ок_рш		•	11,300	< 5
1.f -1:- 1	pik sein		0.500	
ehf_ok_sein_employment	2000Q1	2008Q4	2,500	< 5
1.6.1.1.6	sein year		200	
ehf_ok_shf	1999Q1	2008Q4	200	< 5
1.6.1.1.6	sein	20000		
ehf_ok_uhf	1999Q1	2008Q4	200	< 5
	sein sein			
ehf_ok_uniqpik	2000Q1	2008Q4	3,300	< 5
	pik			
egon (or)				
ehf_or	1991Q1	2008Q4	49,100	< 5
	$pik\ sein$	seinunit y		
ehf_or_controltotals	1990Q1	2008Q4	< 100	< 5
	year qua	rter bls_en	np_month1 bls_t	$otal_wage$
ehf_or_phf	1991Q1	2008Q4	21,300	10
-	pik sein	•	,	
ehf_or_sein_employment	1991Q1	2008Q4	6,300	< 5
1 0	sein year	•	,	
ehf_or_shf	1990Q1	2008Q4	300	< 5
	sein		- 3 0	. •
ehf_or_uhf	1990Q1	2008Q4	400	< 5
	sein sein		100	. 0
ehf_or_uniqpik	1991Q1	$\frac{2008Q4}{2008Q4}$	5,300	< 5
m-or-umqpix	pik	2000-64	5,500	\ 0
ansylvania (pa)	Pin			
ehf_pa	100101	2008Q4	155,700	10
sm_pa	1991Q1	seinunit y		10
lef no control+-+-1-				
ehf_pa_controltotals	1990Q1	2008Q4	< 100	< 5
1.6 1.6			$np_month1 \ bls_t$	
ehf_pa_phf	1991Q1	2008Q4	60,400	25
1.0	pik sein			
ehf_pa_sein_employment	1991Q1	2008Q4	16,800	< 5
	sein year	r		

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			. EMPLOYME	ENT HISTC
	Table 4.8	- Continu	ıed	
File name	StartYQ	EndYQ	Obs. $(1000s)$	Size (GB)
	Sort order			
ehf_pa_shf	1991Q1	2008Q4	800	< 5
r	sein			
ehf_pa_uhf	1991Q1	2008Q4	900	< 5
om-pa-am	sein sein	•	000	\ \
ehf_pa_uniqpik	1991Q1	2008Q4	14,000	< 5
em_pa_umqpik	-	200004	14,000	< 0
1 11 1/:)	pik			
hode Island (ri)	100501	200001	10 =00	
ehf_ri	1995Q1	2008Q4	10,700	< 5
		seinunit y		
ehf_ri_controltotals	1990Q1	2008Q4	< 100	< 5
		rter bls_en	$np_month1\ bls_te$	
ehf_ri_phf	1995Q1	2008Q4	4,300	< 5
	$pik\ sein$	seinunit		
ehf_ri_sein_employment	1995Q1	2008Q4	1,500	< 5
2 0	sein year	•	,	
ehf_ri_shf	1990Q1	2008Q4	100	< 5
	sein			
ehf_ri_uhf	1990Q1	2008Q4	100	< 5
CIII_II_UIII	sein sein	•	100	\ 0
ehf_ri_uniqpik	1995Q1	$\frac{2008Q4}{2008Q4}$	1,400	< 5
em_m_umqpik	-	2006Q4	1,400	< 0
11.00	pik			
outh Carolina (sc)	400004	200004	24.000	_
ehf_sc	1998Q1	2008Q4	34,900	< 5
		seinunit y		
ehf_sc_controltotals	1990Q1	2008Q4	< 100	< 5
	year qua	rter bls_er	$np_month1\ bls_te$	
ehf_sc_phf	1998Q1	2008Q4	16,200	5
	pik sein	seinunit		
ehf_sc_sein_employment	1998Q1	2008Q4	3,700	< 5
1 0	sein year	•	,	
ehf_sc_shf	1998Q1	2008Q4	200	< 5
	sein		-00	. 0
ehf_sc_uhf	1998Q1	2008Q4	300	< 5
CIII_DC_UIII	sein sein	•	300	_ 0
ahf sa unianil			4.000	< 5
ehf_sc_uniqpik	1998Q1	2008Q4	4,900	< 5
11 D 1 + (1)	pik			
uth Dakota (sd)	400.00			
ehf_sd	1994Q1	2008Q4	9,300	< 5
	pik sein	seinunit y	<i>iear</i>	
ehf_sd_controltotals	1990Q1	2008Q4	< 100	< 5
	year qua	rter bls_er	mp_month1 bls_te	$otal_wage$
ehf_sd_phf	1994Q1	2008Q4	3,900	< 5
· r	pik sein	•	2,200	
ehf_sd_sein_employment	1994Q1	$\frac{3008Q4}{2008Q4}$	1,300	< 5
em_sa_sem_empioymem	•	-	1,500	< 0
-1-f - 1 -1-f	sein year		. 100	
ehf_sd_shf	1998Q1	2008Q4	< 100	< 5
	sein			
ehf_sd_uhf	1998Q1	2008Q4	< 100	< 5

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

ile name		- Continu EndYQ	Obs. (1000s)	Size (GB)
	Sort order		. , ,	
	sein sein			
hf_sd_uniqpik	1994Q1	2008Q4	1,100	< 5
	pik			
nessee (tn)				
$\mathrm{hf}_{-}\mathrm{tn}$	1998Q1	2008Q4	51,300	< 5
	-	seinunit y		
hf_tn_controltotals	1990Q1	2008Q4	< 100	< 5
		rter bls_en	np_month1 bls_t	$otal_wage$
hf_tn_phf	1998Q1	2008Q4	24,400	10
	$pik\ sein$	seinunit		
hf_tn_sein_employment	1998Q1	2008Q4	4,600	< 5
	sein year			
hf_tn_shf	1998Q1	2008Q4	300	< 5
	sein			
hf_tn_uhf	1998Q1	2008Q4	400	< 5
	sein sein	nunit		
hf_tn_uniqpik	1998Q1	2008Q4	6,700	< 5
	pik			
as (tx)				
hf_tx	1995Q1	2008Q4	230,900	15
	•	seinunit y	ear	
nf_tx_controltotals	1990Q1	2008Q4	< 100	< 5
	•	•	np_month1 bls_t	$otal_wage$
f_tx_phf	1995Q1	2008Q4	108,300	40
-	pik sein	-	•	
f_tx_sein_employment	1995Q1	2008Q4	21,000	< 5
1 0	sein year	•	,	
nf_tx_shf	1990Q1	2008Q4	1,300	< 5
	sein	•	, -	
nf_tx_uhf	1990Q1	2008Q4	1,700	< 5
	sein sein	•	,	. •
nf_tx_uniqpik	1995Q1	2008Q4	24,100	< 5
11	pik		,	. •
n (ut)	<u>.</u>			
hf_ut	1999Q1	2008Q4	19,700	< 5
	•	seinunit y		` `
nf_ut_controltotals	1990Q1	$\frac{2008Q4}{2008Q4}$	< 100	< 5
	-	•	$np_month1 \ bls_t$	
nf_ut_phf	1999Q1	$\frac{7008Q4}{2008Q4}$	1000000000000000000000000000000000000	$\frac{otan_aagc}{<5}$
II-40-biii	pik sein		5,500	_ 0
nf_ut_sein_employment	1999Q1	2008Q4	2,100	< 5
in_ac_som_omproyment	sein year	•	2,100	_ 0
nf_ut_shf	1990Q1	2008Q4	200	< 5
.11_00_5111	sein	200004	200	\ 0
nf_ut_uhf	1990Q1	2008Q4	300	< 5
II_Ut_UIII	-	•	300	< 0
hf_ut_uniqpik	sein sein		9.700	< 5
ан нь инистрік	1999Q1	2008Q4	2,700	< 5

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		EMPLOYME	
	Table 4.8 – Continue		
File name	StartYQ EndYQ	Obs. (1000s)	Size (GB)
	Sort order		
rginia (va)	100001 200004	60.000	. •
ehf_va	1998Q1 2008Q4	62,200	< 5
1.0	pik sein seinunit ye		. 1
ehf_va_controltotals	1990Q1 2008Q4	< 100	< 5
1.0 1.0	year quarter bls_em		
ehf_va_phf	1998Q1 2008Q4	27,200	10
1.6	pik sein seinunit	C 500	. 1
ehf_va_sein_employment	1998Q1 2008Q4	6,500	< 5
-1-f1-f	sein year	400	
ehf_va_shf	1995Q3 2008Q4	400	< 5
1.0 1.0	sein	500	. 1
ehf_va_uhf	1995Q3 2008Q4	500	< 5
1.0 • • • • • • • • • • • • • • • • • • •	sein seinunit	0.700	
ehf_va_uniqpik	1998Q1 2008Q4	8,700	< 5
	pik		
rmont (vt)	200001 200001	4.000	
ehf_vt	2000Q1 2008Q4	4,600	< 5
	pik sein seinunit ye		
ehf_vt_controltotals	1990Q1 2008Q4	< 100	< 5
	year quarter bls_em		
ehf_vt_phf	2000Q1 2008Q4	1,900	< 5
	pik sein seinunit		
ehf_vt_sein_employment	2000Q1 2008Q4	700	< 5
	sein year		
ehf_vt_shf	2000Q1 2008Q4	< 100	< 5
	sein		
ehf_vt_uhf	2000Q1 2008Q4	< 100	< 5
	sein seinunit		
ehf_vt_uniqpik	2000Q1 2008Q4	700	< 5
	pik		
ashington (wa)			
ehf_wa	1990Q1 2008Q4	87,000	< 5
	pik sein seinunit ye		
ehf_wa_controltotals	1990Q1 2008Q4	< 100	< 5
	year quarter bls_em		$otal_wage$
ehf_wa_phf	1990Q1 2008Q4	38,700	20
	pik sein seinunit		
ehf_wa_sein_employment	1990Q1 2008Q4	11,400	< 5
	$sein\ year$		
ehf_wa_shf	1990Q1 2008Q4	700	< 5
	sein		
ehf_wa_uhf	1990Q1 2008Q4	800	< 5
	$sein\ seinunit$		
ehf_wa_uniqpik	1990Q1 2008Q4	9,100	< 5
	pik		
sconsin (wi)	-		
ehf_wi	1990Q1 2008Q4	80,300	< 5
	pik sein seinunit ye		

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CHAPTER 4. EMPLOYMENT HISTORY FILES (EHF)

		– Continu		
File name	StartYQ		Obs. (1000s)	Size (GB)
	Sort order			
ehf_wi_controltotals	1990Q1	2008Q4	< 100	< 5
			np_month1 bls_te	
ehf_wi_phf	1990Q1	2008Q4	30,200	15
		seinunit		
ehf_wi_sein_employment	-	2008Q4	8,500	< 5
	sein year			
ehf_wi_shf	-	2008Q4	400	< 5
	sein			
ehf_wi_uhf	-	2008Q4	400	< 5
	sein sein			
ehf_wi_uniqpik	1990Q1	2008Q4	6,400	< 5
	pik			
st Virginia (wv)				
ehf_wv	-	2008Q4	13,700	< 5
		seinunit y		
ehf_wv_controltotals	-	2008Q4	< 100	< 5
			$np_month1\ bls_te$	
ehf_wv_phf	1997Q1	2008Q4	5,800	< 5
	$pik\ sein$	sein unit		
ehf_wv_sein_employment	1997Q1	2008Q4	1,700	< 5
	sein year			
ehf_wv_shf	1990Q1	2008Q4	< 100	< 5
	sein			
ehf_wv_uhf	1990Q1	2008Q4	100	< 5
	sein sein	unit		
ehf_wv_uniqpik	1997Q1	2008Q4	1,800	< 5
	pik			
roming (wy)				
ehf_wy	1992Q1	2008Q4	7,600	< 5
•	-	seinunit y	,	
ehf_wy_controltotals		2008Q4	< 100	< 5
•	•	•	np_month1 bls_te	$otal_wage$
ehf_wy_phf	1992Q1	2008Q4	3,700	< 5
v 1		seinunit	, -	
ehf_wy_sein_employment	1992Q1	2008Q4	1,100	< 5
, , , , , , , , , , , , , , , , , , ,	sein year	-	_,_00	
ehf_wy_shf	2001Q1	2008Q4	< 100	< 5
,,,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	sein	_0000001	100	. 0
ehf_wy_uhf	2001Q1	2008Q4	< 100	< 5
,,,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	sein sein	•	< 100	\ 0
ehf_wy_uniqpik	1992Q1	2008Q4	1,200	< 5

Number of files for each data set group and state. Aggregate size of all files in GB in parentheses.

4.4 NOTES

Table 4.9: UI/EHF Summary of Information and Known Issues with Data Coverage and Quality $\,$

State	Known Data Quality Issues (UI/EHF)	Recommendation to Researchers
CA	None	1
СО	60-70% hole in UI data in 1993:3. $20%$ unresolved identifier mismatch on UI in $[90:1-90:3]$	Researchers should generally avoid use of pre-1994 EHF data in CO.
FL	(1) There appear to be changes being made in the firm identifiers on the ES202 and UI data in the mid-to-late 1990s. Specifically it looks as though some changes are made on the identifiers in the ES202 in 1996 and in 1997 the UI data is corrected in kind. In the ES202 data, 14% of firms die in 1995:4 and are born in 1996:1, indicating a shift in some firm identifiers. A similar change in magnitude occurs in the UI data between 1997:1 and 1997:4. Between these years, the rate of match between the UI and ES202 SEINs is somewhat poor (10% of UI SEINs do not appear on the ES202 between 1996:1 and 1997:3), although it is quite good both before and after. (2) The match between the ES202 and UI data is not good in 2002:4-2003:3, with 13-20% of UI SEINs not appearing in the ES-202 data.	While not a big enough problem to recommend avoiding use of these date ranges in FL, be aware that changes in firm identifiers in the mid-1990s will bias worker flow measures during this period.
IA ID	None 1990 UI data has firm identifier problems on approximately 40% of the records. Because of these problems, this year is not included in the EHF.	Researchers should generally avoid use of 1990 ID EHF data, which should not be too much of an issue as ES202 information is missing for this year
IL	Small hole in UI data in 1990:1 (10% missing). 1992:1 and 1993:1 are also missing UI wage records.	in ID. Note to researchers: These problems bias worker flows in those quarters, also full quarter employment in early years of IL data.
IN	None	
KS	Large holes in KS UI data at 1990:1 ($\rlap{$z$}50\%$ missing) and 1992:4 ($\rlap{$z$}5\%$ missing)	Researchers should generally avoid use of 1990 and 1992 KS EHF data; this problem will also bias full quarter employment and flows in 1993.
KY	UI identifier problem in 2000:3-2001:2 likely, due to 10%, 15% death rates in 2000:3, 2000:4, followed by 11%, 14% birth rates in 2001:1 and 2001:2. (Normal is 3-7% births/deaths in a particular quarter)	Note to researchers: These problems bias worker flows in those quarters, also full quarter employment during 2000-2001 KY data.
MD	None	
ME	None	
MN	None	
МО	$1994{:}4$ UI data is small (approximately 70% sample).	Researchers should generally avoid use of 1994 MO EHF data; this problem will also bias some full quarter employment and flows measures in 1995.
MT		
		(cont)

(cont)

Table 4.9 – Continued

State	Known Data Quality Issues (UI/EHF)	Recommendation to Researchers
NC	* ES202 show persistently lower employment	Note to Researchers: Similar to problems in early
	than UI, by about 14%, except for 1991:1-1992:3	years of IL, these issues bias worker flows in those
	(around 0%) and 2002:1-2002:4 (5-8%). Warnings	quarters, also full quarter employment.
	are generated when it goes above 15%. * Pay-	
	roll is typically 6-8% higher on ES202 compared	
	to UI except for 1991:1-1992:3, where it is 20-	
	30% higher. There are also significant, but not	
	as large deviations in 2002:1-2003:1. * Based on	
	the BLS PU records, the ES202 data series looks	
	fine: ES202 sums rarely go above 1% (Test 13-1 and 13-2)	
	Conclusion: we are still missing wage records in	
	the early periods, and some in later periods as	
	well. The most recent wage records actually look	
	coherent with the longest time series, but 2002 is a small problem.	
NJ	Small holes in NJ UI data at 1998:3 (5%) and	Note to Researchers: Problem probably small
	1999:1 (8-10%) and 2003:1 (10%)	enough to ignore for most research purposes.
NM	None	
OK	None	
OR	1994:1 is small, but not terribly so.	Note to Researchers: Problem probably small enough to ignore for most research purposes.
PA	UI wage records are 1% sample for $1996:4$	Note to Researchers: Generally avoid use of 1996 PA annual earnings (particularly earnings changes between 1995-1996, 1996-1997, which will be biased), this problem will also bias some flows and full quarter employment measures in 1996 and 1997.
TX	None	
VA	1998:1 is small, and 1998:2 also looks on the small	Note to Researchers: Problems probably small
	side.	enough to ignore for most research purposes.
WA	None	
WI	None	
WV	None	

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Chapter 5. Geo-coded Address List (GAL)

5.1 OVERVIEW

5.1.1 Definition of GAL

The Geocoded Address List (GAL) is a data set containing unique commercial and residential addresses in a state geocoded to the Census Block and latitude/longitude coordinates. It consists of the address list (GAL) and a crosswalk for each processed file-year. The GAL contains each unique address, identified by a GAL identifier called galid, its geocodes, a flag for each file-year in which it appears, data quality indicators, and data processing information, including the release date of the Geographic Reference File (GRF). The GAL Crosswalk contains the ID of each input entity and the ID of its address (galid).

Input Data The input data consists of addresses, geocodes, and coordinates. Currently, the source files providing addresses consist of the following (future work will add the Non-employer file):

ACS-POW	American Community Survey Place of Work (2001 and later)
AHS	American Housing Survey (2002)
ES202	Employment Security form 202 (all available years 1990 and later)
SSEL	Business Register (Standard Statistical Establishment List 1990 and later)
MAF	Master Address File (the year following the year of the desired geographic vintage)

Geocodes The source files providing geocodes and coordinates are the following:

GCP	the databases of Group1's Geographic Coding Plus software
MAF	Master Address File
GRF-C	Geographic Reference File, Codes (encompassed in the BMF)
WIB-C	Workforce Investment Board, Codes (encompassed in the BMF)
BMF	Block Map File

5.1.2 Update frequency

The internal use GAL is produced quarterly. The RDC version is produced occassionally, at the same time as the other LEHD-provided RDC files.

5.1.3 Acquisition process

In the S2004 Infrastructure Files, the most recent available GAL at the time of transfer was used, and was not synchronized to the rest of the Infrastructure Files. This lead to several discrepancies (records not matching to the rest of the Infrastructure Files). From S2008 onwards, GAL had been integrated into the LEHD data production process, and is synchronized with the other data inputs.

5.1.4 Processing description

All internal processing variables (parsed addresses in particular) are available on the RDC. All crosswalks to input files (for instance, the BR) are available as well. Note that a researcher needs to request the input files separately, and not all input files may be available in the RDC environment.

The Census-internal GAL is considered commingled data, *i.e.*, it contains information protected both under Title 13 and Title 26. Because projects requesting Title 26 data are handled differently from projects requesting only Title 13 information, the GAL is split. Before transferring the GAL to the RDC environment, all variables that refer to Title 26 data are split off, and stored in a separate file (gal_ZZ_t26flags.sas7bdat, Section 5.3.5). Furthermore, all records sourced exclusively from Title 26 data are removed from the main GAL dataset, and stored separately (gal_ZZ_t26.sas7bdat, Section 5.3.4). Section 5.4.1 describes the program used to split the data from the internal-use commingled file. Section 5.4.2 provides a sample program to join all three components together again.

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5.2 DETAILS

The following document was prepared by Marc Roemer, U.S. Census Bureau. It provides a general overview of how the original GAL files are created. Note that the Census Bureau continually improves the processing, and the current GAL processing may differ in some details.

The Geocoded Address List (GAL) is a data set containing unique commercial and residential addresses in a state geocoded to the Census Block and latitude/longitude coordinates. The file encompasses addresses from the state ES202 data, the Business Register, the Census Bureau's Master Address File (MAF), the American Community Survey Place of Work file (ACS-POW), and others. Addresses from these source files go through Code1, Vality standardizer, Vality matching for unduplication, and several other steps in SAS. This document refers to one year's data from a source file as a file-year (for example, the 1995 ES202).

The job stream follows the steps below using the indicated software.

- Step 1: Create input (SAS).
- Step 2: Standardize and geocode addresses (Code1).
- Step 3: Parse and standardize address elements (Vality Standardize).
- Step 4: Match addresses, flag masters and duplicates (Vality Unduplicate).
- Step 5: Create preliminary crosswalk and unique address list with address identifier (SAS).
- Step 6: Set file-year flags, create GAL Crosswalks containing the input identifier and address identifier (SAS).
- Step 7: Retrieve and derive block codes and coordinates from the MAF (SAS).
- Step 8: Impute block within known tract (SAS).
- Step 9: Create GAL by adding higher-level geocodes by block (SAS).
- Step 10: Delete intermediate data files and create links.

The final output consists of the address list and a crosswalk for each processed file-year. The GAL contains each address, its geocodes, a flag for each file-year in which it appears, data quality indicators, and data processing information. The GAL Crosswalk contains the ID of each input entity and the ID of its address. The following section describes the GAL's content.

5.2.1 Important Variables

Unique identifier The variable galid is the unique address identifier on the GAL, a 26-character string consisting of the letter 'A' in the first column followed by the 2-character state FIPS code and a zero-padded sequential number. The galid is created each time a GAL is created. There's no consistency in the galid between versions or vintages of the GAL.

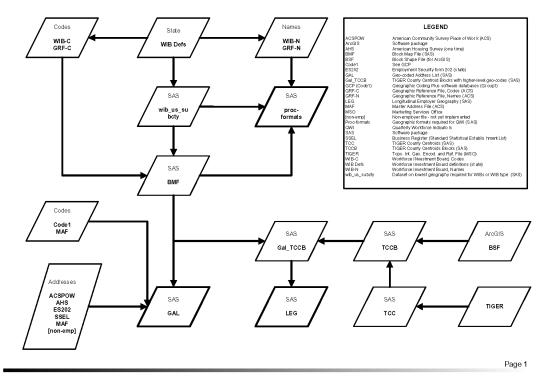
Geographic vintage The release date (year) of the GRF identifies the geographic vintage. In the GAL the vintage becomes the variable a_vintage.

Geographic codes The variable a_geocode is $FIPS-state(2) \| FIPS-county(3) \| Census-tract(6)$, and it uniquely identifies the Census tract in the U.S. The tract is the lowest level of geography recommended for analysis. The Census block within the tract is a_block. The uncertainties in block-coding make block-level analysis questionable. However, geocoding to the block allows us to add all the higher-level geocodes to the addresses. The variable a_block_src generated in Steps 7 and 8 describes the source of the block-code.

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Figure 5.1: GAL Processing

Flowchart for Adding WIBs to GAL/LEG Processing - 09/12/05



Source: Longitudinal Employer-Household Dynamics (LEHD) Program, Census Bureau

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		,
	Typical	
Value	Percent	Meaning
\mathbf{C}	12.20	Code1, or the address matches an address for
		which Code1 supplied the block code
\mathbf{M}	81.86	The MAF - the address is a MAF address or
		matches a MAF address
\mathbf{E}	0.00	The MAF, the street address is exactly the same
		as a MAF address in the same tract
W	0.03	The MAF, the street address is between 2 MAF
		addresses on the same block face
O	1.23	Imputed by the distribution of commercial ad-
		dresses in the tract
S	1.17	Imputed by the distribution of residential ad-
		dresses in the tract
I	0.01	Imputed by the distribution of mixed-use ad-
		dresses in the tract
D	0.00	Imputed by the distribution of all addresses in the
		tract
missing	3.50	Block code is missing
_		-

In all states observed so far except California, no address required the 'D' method. That is, almost every tract where an address lacks a block code contains commercial, residential, and mixed-use addresses.

The Census Bureau splits blocks to accommodate changes in political boundaries. Most commonly, these are place boundaries (a place is a city, village, or similar municipality). The resulting block parts are identified by 2 suffixes, each taking a value from A to Z. The GAL assigns the block part directly from the MAF, or by adopting the one whose internal point is closest to the address by the straight-line distance. The variables a_block_suf1 and a_block_suf2 identify the block part, and a_block_suf_src generated in Step 9 describes the method used to assign it.

	Typical	
Value	Percent	Meaning
A	1.50	Assigned by distance
${ m M}$	4.18	The MAF - the address is a MAF address or
		matches a MAF address
missing	94.32	Not a split block

The GAL also provides the following basic geographic variables:

```
a_ssccc FIPS-state(2)||FIPS-county (3)
a_st FIPS state (2)
a_cty FIPS county within the state (3)
a_tract Census tract within the county (6)
```

Higher-level geographic codes originate from the Block Map File (BMF) and attach to the GAL in Step 9. The BMF is an extract of the GRF-C (Geographic Reference File - Codes). All these geocodes are character variables. FIPS (Federal Information Processing Standard) codes are unique within the U.S.; Census codes are not.

a_{-} fipsmcd	5-digit FIPS Minor Civil Division (a division of a county)
a_mcd	3-digit Census Minor Civil Division (a division of a county)
a_fipspl	5-digit FIPS Place
$a_{-}place$	4-digit Census Place
a_msapmsa	Metropolitan-Statistical-Area(4) Primary-Metropolitan-Statistical-Area(4)
a_{-} wib	6-digit Workforce Investment Board area

Geographic coordinates The coordinates of each address are in the variables a_latitude and a_longitude. These variables are numeric with 6 implied decimals (divide by 1,000,000 to convert them). The coordinates are not as accurate as 6 decimal places implies. An indication of their quality is in the variable a_geoqual, a numeric variable taking values from 1 to 9 and generated in Steps 7, 8, and 9:

	Typical	
Value	Percent	Meaning
1	80.15	Rooftop or MAF (most accurate)
2	1.59	ZIP4 or block face, block face is certain
3	10.12	Block group is certain
4	4.65	Tract is certain
9	3.50	Coordinates are missing

The format 'agqual' provided by 'format_geo.sas' in '/programs/projects/auxiliary/Formats' contains the meanings of the a_geoqual values listed above.

Two other variables give information about the coordinates. The flag a_latlong_src indicates their source:

	Typical	
Value	Percent	Meaning
В	14.77	Block (or block part) internal point
\mathbf{C}	70.04	Code1
D	0.03	Derived
M	11.66	the MAF
missing	3.50	Coordinates are missing

Few addresses have a_latlong_src equal to 'D'. Deriving coordinates occurs only if they're still missing after Code1 processing and direct extraction from the MAF, but the tract is known. In this case, the flag a_latlong_drv generated in Step 7 describes the derivation method:

	Typical	
Value	Percent	Meaning
F	0.00	Adopted from the only address on the block face
P	0.04	Extrapolated between 2 addresses on the block
		face
missing	99.96	Derivation not performed

In GAL Version 1, deriving coordinates and block codes by these methods was an important means of block-coding. It rarely operates now, since Code1 began providing block codes. Nevertheless, GAL Version 3 still exhausts all methods of assigning block-codes and coordinates before resorting to imputation.

File-year flags A set of flags generated in Step 6 indicates what file-years an address appears in. The names of the flags conform to the naming convention [f][yyyy] for the source file [f] and year [yyyy], where [f] takes the following values:

Business Register	f = b
ES202	f = e
Master Address File	f = m
American Community Survey - Place of Work	f = p
American Housing Survey	f = h

For example, the flag variable b1997 equals 1 if the address is on the 1997 Business Register; otherwise it equals 0. Note that if a [LEHD] state partner supplies 1991 ES202 data with no address information, e1991 will be 0 for all addresses. Typically, the e[yyyy] flags equal 1 for between 3 and 6 percent of addresses, the b[yyyy] flags equal 1 for between 4 and 10 percent, and the m[yyyy] flag is 1 for between 80 and 90 percent. The p[yyyy] and h[yyyy] flags equal 1 for less than 1 percent of addresses because the ACS-POW and AHS data are sample surveys.

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5.2.2 Other Variables

occupant_type The variable occupant_type, recoded from the file-year flags in Step 8, indicates whether an address is commercial, residential, or mixed-use.

bigsrcid The tracking ID bigsrcid, created in Step 1, uniquely identifies the entity that supplied the address. It consists of [f], [yyyy], the unique ID from the input file, zero-padding, and for some source files, a flag indicating which set of variables supplied the address. For addresses originating in the Business Register, another flag indicates the single-unit data set or the multi-unit data set. This tracking ID variable is useful for debugging.

This variable is only available GAL_ZZ_2003_T26FLAGS.

srcmast A diagnostic variable srcmast contains [f] [yyyy], indicating the file-year that supplied this address. Bear in mind that it's often arbitrary which observation becomes the master address for a set of duplicates in Step 1 and Step 4, so bigsrcid and srcmast don't indicate anything special about an address or an entity. They simply identify the origin of an address that became a master address in unduplication.

This variable is only available GAL_ZZ_2003_T26FLAGS.

Code 1 variables The names of Code1 variables contain the prefix c1. They impart mostly diagnostic information from Code1 processing. They could be useful for development work or address research.

For records sourced exclusively from the BR, these variables are available on GAL_ZZ_2003_T26. For records sourced exclusively from the ES202! (ES202!), some variables were blanked on GAL_ZZ_2003 and are available on GAL_ZZ_2003_ES202ONLY to Census personnel only. Code1 diagnostic codes remain available to all researchers.

Vality variables The parsed address elements from Step 3 sit in the variables named with the prefix v_{-} . They could be useful for development work, particularly in improving the parsing routine.

For records sourced exclusively from the BR, these variables are available on GAL_ZZ_2003_T26. For records sourced exclusively from the ES202!, some variables were blanked on GAL_ZZ_2003 and are available on GAL_ZZ_2003_ES202ONLY to Census personnel only. Vality diagnostic codes remain available to all researchers.

5.2.3 Accessing the GAL: the GAL Crosswalks

The GAL Crosswalks allow you to extract geographic and address information about any entity whose address went into the GAL. Each crosswalk contains the identifiers of the entity, its galid, and sometimes flags. To attach geocodes, coordinates, or address information to an entity, merge the GAL Crosswalk to the GAL by galid, outputting only observations existing on the GAL Crosswalk. Then merge the resulting file to the entities of interest using the entity identifiers. An entity whose address wasn't processed (because it's out of state or lacks address information) will have blank GAL data.

- For the AHS, the entity ID variables are control and year.
- For the ES202, the entity ID variables are sein, seinunit, year, and quarter. The flag variable e_flag indicates whether the address came from the address_street1, address_state, and address_zip9 variables (e_flag=P for physical address) or from the ui_address_street1, ui_address_state, and ui_address_zip9 variables (e_flag=M for mailing address).
- For the ACS-POW data, the entity ID variables are acsfileseq, cmid, seq, and pnum.
- For the Business Register, the entity ID variables are cfn, year, and singmult. The flag variable singmult indicates whether the entity resides in the single-unit (su) or the multi-unit (mu) data set. Another flag variable b_flag indicates whether the address originated from the variables pstreet,

pplce, pst, and pzip (b_flag=P for physical address) or street, plce, st, and zip (b_flag=M for mailing address).

• For the MAF, mafid and year identify entities.

5.2.4 Resources for geographic information

The best place for information about Census geography is

http://www.census.gov/geo/www/reference.html.

Especially informative is the Geographic Areas Reference Manual (GARM), at

http://www.census.gov/geo/www/garm.html

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5.3 DATA SET DESCRIPTIONS

5.3.1Naming scheme

All GAL files are labelled with the geovintage used in the creation, i.e., 2003 in S2004 and 2006 in S2008, and except for the main dataset, a suffix, composed of a dataset abbreviation and a calendar year:

The descriptions below reference the S2004 version of the file, which used geovintage 2003.

```
gal_zz_YYYY.sas7bdat
gal_zz_YYYY_t26flags.sas7bdat
gal_zz_YYYY_t26.sas7bdat
gal_zz_YYYY_acspow_2001.sas7bdat
gal_zz_YYYY_ahs_2002.sas7bdat
gal_zz_YYYY_br_2001.sas7bdat
gal_zz_YYYY_maf_2004.sas7bdat
gal_zz_YYYY_xwlk_2001.sas7bdat
gal_zz_YYYY_es202only.sas7bdat
```

ZZ stands for the state postal abbreviation, and YYYY for a calendar year. Not all files are available for all states. In particular, LEHD-related crosswalks are only available for states actively participating with LEHD at the time of creation of the GAL.

Suffix	Crosswalk to:	Availability
acspow	American Community Survey	2001-2005
	Place-of-Work Coding	
ahs	American Housing Survey	as of 2002
br	Business Register (ex-SSEL)	1990-2001
maf	(Census) Master Address File	as of 2004
xwalk	LEHD ES-202	varies by state; consult LEHD-
		ES-202 documentation

Files with suffixes t26, t26flags, and tccb are not cross-walks. Consult Sections 5.3.4, 5.3.5, and 5.3.7, respectively.

5.3.2 **Data location**

The files are stored in two main directories, with state-specific subdirectories:

```
gal/ZZ/
              for most files
galt26/ZZ
              for files with Title 26 protected content
```

On the RDC network, both directories can be found under

```
/mixed/lehd/current
```

Files reserved for Census internal projects can be found in

```
galcc/ZZ
```

For the exact location, consult with the RDC administrator.

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5.3.3 Main dataset: GAL_ZZ_2003

This file does not contain data protected exclusively under Title 26. Consult Section 5.3.4 and 5.3.5. This file also does not report any address data sourced exclusively from ES-202. If a field contains address data sourced exclusively from ES-202, the values have been blanked on this file, and preserved in GAL_ZZ_2003_ES2020NLY (see Section 5.3.6).

Record identifier: GALID

Sort order: GALID
File indexes: none
Entity unique address

Unique Entity Key GALID

Field name	Data dictionary S	Starting	Field	Data
	- 1	osition	size	type
3-digit Census MCD	A_MCD	00612	3	A/N
4-digit Census Place	A_PLACE	00620	4	A/N
5-digit FIPS MCD	A_FIPSMCD	00607	5	A/N
5-digit FIPS Place	A_FIPSPL	00615	5	$\dot{A/N}$
6-character Traffic Analysis Zone (leading blanks)	$A_{-}TAZ$	00596	6	A/N
Address on AHS $2002 = 1$; else=0	н2002	00561	1	A/N
Address on ES202 year YYYY $=1$; else=0	EYYYY	00554	1	A/N
Address on MAF $2004 = 1$; else=0	M2004	00562	1	A/N
Address on ACS-POW year YYYY $=1$; else=0	PYYYY	00563	1	A/N
Census Block suffix 1	A_BLOCK_SUF1	00585	1	A/N
Census Block suffix 2	A_BLOCK_SUF2	00586	1	A/N
Census block within tract	A_BLOCK	00581	4	A/N
Census tract within county	A_TRACT	00590	6	A/N
Code1 Census block id 3 digit	C1_BLOCK	00489	3	A/N
Code1 Census block id 4 digit	C1_BLOCK4	00032	4	A/N
Code1 Census geocode (tract)	C1_GEOCODE	00477	12	A/N
Code1 USPS record type	C1_USPSRECTYPE	00467	1	A/N
Code1 ZIP	$C1$ _ZIP	00457	5	A/N
Code1 ZIP code status	C1_ZIP_STATUS	00471	1	A/N
Code1 ZIP return code	$C1_ZIP_RC$	00021	1	A/N
Code1 ZIP source	$C1_ZIP_SRC$	00466	1	A/N
Code1 ZIP+4 code	$C1$ _ZIP4	00462	4	A/N
Code1 ZIP4 return code	$C1_ZIP4_RC$	00022	1	A/N
Code1 address correctness score	C1_ADDRESS_CS	00469	1	A/N
Code1 address return code	C1_ADDRESS_RC	00017	1	A/N
Code1 address w/apt	C1_ADDRESS	00357	70	A/N
Code1 alias/base return code	C1_ALIAS_RC	00018	1	A/N
Code1 apartment return code	C1_APT_RC	00026	1	A/N
Code1 carrier route return code	C1_CARRTE_RC	00023	1	A/N
Code1 city name	C1_CITY	00427	28	A/N
Code1 city/state return code	C1_CITYSTATE_RC	00020	1	A/N
Code1 directional return code	C1_DIRECTIONAL_R	00024	1	A/N
Code1 dropped information code	C1_DROPPEDINFO_R		1	A/N
Code1 general return code	c1_general_rc	00016	1	A/N
Code1 geocode return code	C1_GEO_RC	00476	1	A/N

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 $\underline{\textit{CHAPTER 5.}} \ \ \underline{\textit{GEO-CODED ADDRESS LIST (GAL)}}$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Code1 lat/long coordinate	c1_latlong	00492	20	A/N
Code1 lat/long level	c1_latlong_rc	00512	1	A/N
Code1 master file vintage	$c1$ _vintdate	00472	4	A/N
Code1 overall correctness	c1_overall_rc	00468	1	A/N
Code1 state abbrev	$C1_STATE$	00455	2	A/N
Code1 street name correctness score	c1_streetname_	CS 00470	1	A/N
Code1 suffix return code	$c1_suffix_rc$	00025	1	A/N
Describes source of block coding	A_BLOCK_SRC	00587	1	A/N
Commercial, Mixed, or Residential	OCCUPANT_TYPE	00568	1	A/N
FIPS county within state	$A_{-}CTY$	00604	3	A/N
FIPS state	A_ST	00602	2	A/N
5-digit FIPS (state and county)	A_SSCCC	00638	5	A/N
Full geocode (incl. tract code)	$A_GEOCODE$	00569	11	A/N
Latitude, 6 implied decimal places	$A_LATITUDE$	00000	8	N
Longitude, 6 implied decimal places	A_LONGITUDE	00008	8	N
MSA-PMSA	$A_MSAPMSA$	00624	8	A/N
Maf, Code1, Derived, Block (or part) internal point	$A_LATLONG_SRC$	00580	1	A/N
Maf; Assigned by distance	A_BLOCK_SUF_SRC	00589	1	A/N
Quality of lat/long	$A_GEOQUAL$	00646	3	N
Unique GAL address ID	GALID	00513	29	A/N
Vality additional address info	V_ADDADDR	00220	35	A/N
Vality address type	V_ADDRTYP	00255	1	A/N
Vality box type	V_BTYPE	00128	7	A/N
Vality box value	$V_{-}BVAL$	00135	10	A/N
Vality building name	V_BUILDN	00190	30	A/N
Vality floor type	V_{FTYPE}	00145	5	A/N
Vality floor value	V_{FVAL}	00150	10	A/N
Vality house number	V_HNUM	00036	10	A/N
Vality house number suffix	V_HNUMS	00046	10	A/N
Vality input pattern	V_INPATT	00311	20	A/N
Vality multi-unit type	V_MUTYPE	00175	5	A/N
Vality multi-unit value	$V_{-}MUVAL$	00180	10	A/N
Vality rural route type	V_RTYPE	00115	3	A/N
Vality rural route value	V_RVAL	00118	10	A/N
Vality street name	V_SNAME	00080	25	A/N
Vality street prefix - directional	V_SPRED	00056	2	A/N
Vality street prefix - type	V_SPRET	00060	20	A/N
Vality street suffix - directional	$V_{-}SSUFD$	00058	2	A/N
Vality street suffix - qualifier	$V_{-}SSUFQ$	00110	5	A/N
Vality street suffix - type	V_SSUFT	00105	5	A/N
Vality unhandled data	V_UNDATA	00276	35	A/N
Vality unhandled pattern	V_UNPATT	00256	20	A/N
Vality unit type	V_UTYPE	00160	5	A/N
Vality unit value	$V_{-}UVAL$	00165	10	A/N
Vintage of Census geography (GRF)	$A_{VINTAGE}$	00643	3	N
Workforce Investment Board area	$A_{-}WIB$	00632	6	A/N
only addr on blockFace; extraPolation	A_LATLONG_DRV	00588	1	A/N
				,

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Auxiliary dataset: GAL_ZZ_2003_T26 $\overline{5.3.4}$

This file has the same column structure as the main file, but contains all records sourced exclusively from Title 26-protected information. The columns are described in Section 5.3.3.

Record identifier: GALID

Sort order: GALID File indexes: none

Entity unique address

Unique Entity Key GALID

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5.3.5 Auxiliary dataset: GAL_ZZ_2003_T26flags

This file contains all Business Register-related flags, for all GAL records.

Record identifier: GALID

Sort order: GALID
File indexes: none
Entity unique address

Unique Entity Key GALID

Field	name		Data	dictionary	Starting	Field	Data
			referenc	ce name	position	size	type
Address on SSEL 1990 =	1; else=0		в1990		00029	1	A/N
Address on SSEL 1991 $=1$; else=0		в1991		00030	1	A/N
Address on SSEL 1992 $=1$; else=0		B1992		00031	1	A/N
Address on SSEL 1993 $=1$; else=0		в1993		00032	1	A/N
Address on SSEL 1994 $=1$; else=0		в1994		00033	1	A/N
Address on SSEL 1995 $=1$; $else=0$		в1995		00034	1	A/N
Address on SSEL 1996 $=1$; $else=0$		в1996		00035	1	A/N
Address on SSEL 1997 $=1$; else=0		B1997		00036	1	A/N
Address on SSEL 1998 $=1$; else=0		в1998		00037	1	A/N
Address on SSEL 1999 $=1$; $else=0$		в1999		00038	1	A/N
Address on SSEL $2000 = 1$; else=0		B2000		00039	1	A/N
Address on SSEL $2001 = 1$; $else=0$		B2001		00040	1	A/N
Tracking ID			BIGSRO	CID	00331	26	A/N
Unique GAL	address	ID	GALID		00000	29	A/N
A——YYYYMMDD_HHM	IM_STnnnnnnnnn	nn					
Source file of this address			SRCMA	.ST	00027	5	A/N

Auxiliary dataset: GAL_ZZ_2003_ES202ONLY $\overline{5.3.6}$

This file contains address information sourced exclusively from ES-202 files, which have been blanked on GAL_ZZ_2003. This file is only accessible to Census-internal projects.

Record identifier: GALID

Sort order: GALID File indexes: none Entity unique address

Unique Entity Key GALID

	reference name C1_ZIP	position 00457	size 5	type
		00457	5	A /NT
				A/N
Code1 ZIP				
Code1 ZIP+4 code	$C1_{ZIP4}$	00462	4	A/N
Code1 address w/apt	c1_address	00357	70	A/N
Code1 city name	$C1$ _CITY	00427	28	A/N
Code1 state abbrev	C1_STATE	00455	2	A/N
Unique GAL address ID	GALID	00513	29	A/N
Vality additional address info	V_ADDADDR	00220	35	A/N
Vality box value	V_BVAL	00135	10	A/N
Vality building name	V_BUILDN	00190	30	A/N
Vality floor value	V_FVAL	00150	10	A/N
Vality house number	V_HNUM	00036	10	A/N
Vality house number suffix	$V_{-}HNUMS$	00046	10	A/N
Vality multi-unit value	V_MUVAL	00180	10	A/N
Vality rural route value	V_RVAL	00118	10	A/N
Vality street name	V_SNAME	00080	25	A/N
Vality street prefix - directional	V_SPRED	00056	2	A/N
Vality street prefix - type	V_SPRET	00060	20	A/N
Vality street suffix - directional	V_SSUFD	00058	2	A/N
Vality street suffix - qualifier	V_SSUFQ	00110	5	A/N
Vality street suffix - type	V_SSUFT	00105	5	A/N
Vality unhandled data	V_UNDATA	00276	35	A/N
Vality unhandled pattern	V_UNPATT	00256	20	A/N
Vality unit value	$V_{-}UVAL$	00165	10	A/N

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CHAPTER~5.~~GEO-CODED~ADDRESS~LIST~(GAL)

5.3.7 Auxiliary dataset: GAL_ZZ_2003_TCCB

The TCCB file provides county centroids in a structure similar to the main GAL file.

Record identifier: GALID

Sort order: GALID
File indexes: none
Entity unique address

Unique Entity Key GALID (merge or concat?)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
	A_BLOCK_SUF1	00092	1	A/N
	A_BLOCK_SUF2	00093	1	A/N
3-digit Census MCD	A_MCD	00085	3	A/N
4-digit Census Place	A_PLACE	00088	4	A/N
5-digit FIPS MCD	A_FIPSMCD	00075	5	A/N
5-digit FIPS Place	$A_{-}FIPSPL$	00080	5	A/N
A=Arcview	A_BLOCK_SRC	00060	1	A/N
Census block within tract	A_BLOCK	00056	4	A/N
Full geocode (incl. tract)	$A_GEOCODE$	00045	11	A/N
Latitude, 6 implied decimal places	A_LATITUDE	00000	8	N
Longitude, 6 implied decimal places	A_LONGITUDE	00008	8	N
MSA-PMSA	A_MSAPMSA	00061	8	A/N
Quality of lat/long	$A_GEOQUAL$	00094	3	N
Unique GAL address ID	GALID	00016	29	A/N
Workforce Investment Board (WIB) area	A_WIB	00069	6	A/N

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5.3.8 ACS Place-of-work Crosswalk: GAL_ZZ_2003_POW_YYYY

There is one ACS-POW Crosswalk per year of input data YYYY. Files are named gal_ZZ_2003_pow_YYYY.

Record identifier: cmid, seq, pnum

Sort order: cmid, seq, and pnum

File indexes: none

Entity Entity on ACS

Unique Entity Key $\,{\rm cmid},\,{\rm seq},\,{\rm pnum},\,{\rm acsfileseq}$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
ACS file sequence number	ACSFILESEQ	00041	2	A/N
Address ID	GALID	00000	29	A/N
Continuous measurement ID	CMID	00029	9	A/N
Person number	PNUM	00039	2	A/N
Sequence number	SEQ	00038	1	A/N

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5.3.9 AHS Crosswalk: GAL_ZZ_2003_AHS_YYYY

There is one AHS Crosswalk, tagged with the year YYYY the input dataset was captured. The file is called gal_ZZ_2003_ahs_YYYY.

 ${\bf Record\ identifier:\ control\ (year)}$

Sort order: control
File indexes: none
Entity Entity on AHS

Unique Entity Key control (year)

	Field name	Data dictionary	Starting	Field	Data
		reference name	position	size	type
		CONTROL	00033	13	A/N
Address ID		GALID	00000	29	A/N
Year YYYY		YEAR	00029	4	A/N

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5.3.10 Business Register Crosswalk: GAL_ZZ_2003_BR_YYYY

There is one BR Crosswalk per year YYYY of input data. The files are called gal_ZZ_2003_br_YYYY. The entire file is considered FTI.

Record identifier: cfn, year singmult

Sort order: cfn
File indexes: none
Entity Establishment

Unique Entity Key cfn

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Address ID	GALID	00000	29	A/N
Census File Number	CFN	00033	10	A/N
P=physical,M=mailing	B_FLAG	00044	1	A/N
S=su file, $M=mu$ file	SINGMULT	00043	1	A/N
Year YYYY	YEAR	00029	4	A/N

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CHAPTER 5. GEO-CODED ADDRESS LIST (GAL)

5.3.11 ES202 Crosswalk: GAL_ZZ_2003_XWALK_YYYY

There is one ES202 Crosswalk per year YYYY of input data. The files are called gal_ZZ_2003_xwalk_YYYY.

 ${\bf Record\ identifier:}\ {\rm sein,\ seinunit,\ year,\ quarter}$

Sort order: sein seinunit

File indexes: none

Entity Reporting unit (SESA)

Unique Entity Key sein, seinunit, year, quarter

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Address ID	GALID	00000	29	A/N
P=physical,M=mailing	E_FLAG	00046	1	A/N
Quarter (numeric)	QUARTER	00050	3	N
State Employer ID Number	SEIN	00029	12	A/N
State UI Reporting Unit Number	SEINUNIT	00041	5	A/N
Year YYYY	YEAR	00047	3	N

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MAF Crosswalk: GAL_ZZ_2003_MAF_2004 $\overline{5.3.12}$

The crosswalk allows for linking back to the Census Master Address File (MAF) (2004 version). The file is called $gal_ZZ_2003_maf_2004$.

Record identifier: mafid year

Sort order: mafid year

File indexes: none

Entity mafid and year

Unique Entity Key mafid year

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Address ID	GALID	00000	29	A/N
Master Address File ID	MAFID	00033	12	A/N
Year YYYY	YEAR	00029	4	A/N

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5.4 PROGRAMS

5.4.1 Separating Title 26 information

```
/* Time-stamp: <06/10/07 20:50:46 vilhuber> */
             /* $Id: split_gal_t26.tex 131 2007-05-10 00:05:13Z vilhu001 $ */
             %macro split_gal_t26(state=,outlib=WORK,outt26=WORK);
            libname INPUTS "/mixedtmp/lehd2/s2004/gal_commingled/&state./";
            libname OUTPUTS "/mixedtmp/lehd2/s2004/gal/&state./";
            libname OUTT26 "/mixedtmp/lehd2/s2004/galt26/&state./";
            options compress=yes;
            data &outlib..gal_&state._2003
             (drop=b1: b2: label="Free of T26-only-sourced records and columns")
                 &outt26..gal_&state._2003_t26
             (drop=b1: b2: label="T26-only-sourced records")
                 &outt26..gal_&state._2003_t26flags
             (keep=galid b1: b2: compress=no label="T26-related flags only");
             set INPUTS.gal_&state._2003;
Define lengths and labels.
            length flag_t26 3;
            label flag_t26= "Contains only T26-sourced information";
            array t26flags b1: b2:;
            array others e1: e2: h2: m2: p2: ;
            hit_br=0;
            hit_others=0;
see if we have BR information
            do over t26flags;
             if t26flags='1' then hit_br=1;
            end;
see if we have any other information
            do over others:
            if others='1' then hit_others=1;
            flag_t26=(hit_br and not hit_others);
            /* now do the cleaning */
            output &outt26..gal_&state._2003_t26flags;
            if flag_t26 then output &outt26..gal_&state._2003_t26;
            else output &outlib..gal_&state._2003;
now sort the files
            proc sort data=&outt26..gal_&state._2003_t26;
            by galid;
            proc sort data=&outt26..gal_&state._2003_t26flags;
            by galid;
            run;
            proc sort data=&outlib..gal_&state._2003;
            by galid;
            run;
Some info on the files.
            proc contents data=&outt26..gal_&state._2003_t26flags;
            run:
            proc contents data=&outt26..gal_&state._2003_t26;
            proc contents data=&outlib..gal_&state._2003;
            run;
            libname OUTPUTS;
            libname OUTT26;
            libname INPUTS;
            %mend;
```

5.4.2 Recombining GAL component files

First, put the two halves together this could have been an append as well, but this puts it into the right sort order

```
data merged;
merge INPUTS.gal_&state._2003_t26(in=a)
      INPUTS.gal_&state._2003(in=b);
by galid;
_merge=a+2*b;
run;
proc freq data=merged;
title " First merge";
table _merge;
run;
data OUTPUTS.gal_&state._combined;
merge merged(in=a drop=_merge)
      INPUTS.gal_&state._2003_t26flags(in=b)
by galid;
_merge=a+2*b;
run;
proc freq data=OUTPUTS.gal_&state._combined;
title " Second merge";
table _merge;
run;
%mend;
%combine_gal_t26(state=id);
```

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 $\overline{5.5}$ NOTES

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Chapter 6. Individual Characteristics File (ICF)

6.1 OVERVIEW

The Individual Characteristics File (ICF) for each state contains one record for every person who is ever employed in that state over the time period spanned by the state's unemployment insurance records. It consolidates information from multiple input sources on gender, age, citizenship, point-in-time residence, and education. Information on gender, education, and age is imputed ten times when missing.

6.1.1 Universe

The Individual Characteristics File (ICF) for each state contains one record for every person who is ever employed in that state over the time period spanned by the state's unemployment insurance records.

6.1.2 Processing sequence

The ICF is constructed in the following manner. First, the universe of individuals is defined by compiling the list of unique PIKs from the EHF. Demographic information from the PCF is then merged on by PIK, and records without a valid match flagged. PIK-survey identifier crosswalks link the CPS and SIPP ID variables into the ICF, and sex and age information from the CPS is used to complement and verify the PCF-provided information.

6.1.3 Age and sex imputation

Approximately 3% of the PIKs found in the UI wage records do not link to the PCF. Multiple imputation methods are used to impute date of birth and sex for these individuals. To impute sex, the probability of being male is estimated using a state-specific logit model:

$$P(male) = f(X_{is}\beta_s) \tag{6.1}$$

where X_{is} contains a full set of yearly log earnings and squared log earnings, and full set of employment indicators covering the time period spanned by the state's records, for each individual i with strictly positive earnings within state s and non-missing PCF sex. The state-specific $\hat{\beta}_s$ as estimated from Equation (6.1) is then used to predict the probability of being male for individuals with missing sex within state s, and sex is assigned as

male if
$$X_{is}\hat{\beta}_s > \mu_l$$
 (6.2)

where $\mu_l \sim U[0,1]$ is one of $l=1,\ldots,10$ independent draws from the distribution. Thus, each individual with missing sex is assigned ten independent missing data implicates, all of which are used in the QWI processing.¹

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¹Note that this imputation does not account for estimation error in $\hat{\beta}$. This was one of the first missing data imputations developed at LEHD. At the time, techniques for sampling from the posterior predictive distribution of a binary outcome where the likelihood function is based on a logistic regression were not feasible on the LEHD computer system. Since only three

The imputation of date of birth is done in a similar fashion using a multinomial logit to predict the probability of being in one of eight age categories and then assigning an age based on this probability and the distribution of ages within the category. Again, the missing data imputation occurs ten times.

If an individual is missing sex or birth date in the PCF, but not in the CPS, then the CPS values are used, not the imputed values. Also, before the imputation model for date of birth is implemented, basic editing of the date of birth variable takes place to account for obvious coding errors, such as a negative age at the time when UI earnings are first reported for the individual. In those relatively rare cases where the date of birth information is deemed unrealistic, it is set to missing and imputed based on the model described above.

6.1.4Place of residence imputation

An additional set of files containing longitudinal address information will be made available, but is not yet documented.

Place of residence information on the ICF is derived from the StARS (Statistical Administrative Records System), which for the vast majority of the individuals found in the UI wage records contains information on the place of residence down to the exact geographical coordinates. However, in less than ten percent of all cases the geography information is incomplete or missing. The QWI estimation relies on completed place of residence information. Because this information is a critical conditioning variable in the unit-to-worker (U2W) imputation model, all missing residential addresses are imputed.

County of residence is imputed based on a categorical model of the data that is a fully-saturated contingency table. Separately for each state, unique combinations of categories of sex, age, race, income and county of work are used to form $i = 1, \ldots, I$ populations. For each sample i, the probability of residing in a particular county as of 1999, π_{ij} , is estimated by the sample proportion, $p_{ij} = n_{ij}/n_i$, where $j = 1, \ldots, J$ indexes all the counties in the state plus an extra category for out-of-state residents.

County of residence is then imputed based on

$$county = jif P_{ij-1} \le u_k < P_{ij}$$

where P_i is the CDF corresponding to p_i for the *i*th population and $\mu_{kl} \sim U[0,1]$ is one of $k=1,\ldots,10$ independent draws for the lth individual belonging to the ith population.²

In its current version no geography below the county level is imputed and in those cases where exact geographical coordinates are incomplete the centroid of the finest geographical area is used. Thus, in cases where no geography information is available this amounts to the centroid of the imputed county. Geographical coordinates are not assigned to individuals whose county of residence has been imputed to be out-of-state.

6.1.5Education imputation

The imputation model for education relies on a statistical match between the Decennial Census 1990 and LEHD data. The probability of belonging to one of 13 education categories is estimated using 1990 Decennial data conditional on characteristics that are common to both Decennial and LEHD data, using a state-specific logit model:

$$P(educat) = f(Z_{is}\gamma_s) \tag{6.3}$$

where Z_{is} contains age categories, earnings categories, and industry dummies for individuals age 14 and older in the 1990 Census Long Form residing in the state being estimated, and who reported strictly positive wage earnings. The education category is imputed based on

$$educat = j \text{ if } cp_{j-1} \le \mu_l < cp_j$$

percent of the observations in the ICF are subject to this missing data edit, it was implemented as described in the text. A longitudinal, enhanced ICF is under development. All missing data imputations in the new ICF will be performed by sampling from an appropriate posterior predictive distribution. This will properly account for estimation error.

²The longitudinal, enhanced ICF that is under development augments the model in the text with a Dirichlet prior distribution for the P_{ij} s. The imputations are then made by sampling from the posterior predictive distribution, which is also Dirichlet.

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CHAPTER 6. INDIVIDUAL CHARACTERISTICS FILE (ICF) where $cp_j = Z_{is}\hat{\gamma}_s$ and $\mu_l \sim U[0,1]$ is one of $l=11,\ldots,20$ independent draws, and $i \in EHF$. Education is expressed as approximate years of education.

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³In the longitudinally enhanced ICF that is under development, this imputation is replaced by a probablistic record link to Census 2000 long form data. Approximately one person in six acquires directly reported educational attainment as of 2000. The remaining individuals get 10 multiple imputations from a Dirichlet-Multinomial posterior predictive distribution.

DATA SET DESCRIPTIONS

6.2.1Unique record identifier

The unique record identifier within each ICF file is the P! (P!)IK. However, in the current ICF scheme, a person may have (possibly inconsistent) records in multiple states. Each file therefore also contains a state variable. The combination PIK - state is unique across all states, within the set of ICF files, and should be used when concatenating or otherwise combining records from multiple states.

6.2.2Naming scheme

There are five files in the ICF/ICFT26 group:

icf_zz.sas7bdat icf_zz_implicates_age_sex.sas7bdat icf_zz_implicates_county.sas7bdat icf_zz_implicates_education.sas7bdat icf_zz_t26.sas7bdat icf_zz_t26_improved.sas7bdat

ZZ stands for the state postal abbreviation. You will find zero-observation SAS datasets attached to this document - see the attachment tab.

6.2.3 Data location

The files are stored in two main directories, with state-specific subdirectories:

icf/ZZ/ for most files icft26/ZZ for files with Title 26 protected content

On the RDC network, both directories can be found under

/mixed/lehd/current

6.2.4Main dataset: ICF_zz

This is the core dataset, containing all observed non-FTI and the first implicate for imputed variables.

Record identifier PIK

Sort order PIK

Entity PIK

Unique Entity Key PIK

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
CPS Household ID for the first time this Pik matches	HID1	00113	5	A/N
CPS				
CPS Household ID for the second time this Pik	HID2	00120	5	A/N
matches CPS				·
CPS Person ID variable for first time Pik matches CPS	PPOSOLD1	00118	2	A/N

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
CPS Person ID variable for second time Pik matches	PPOSOLD2	00125	2	A/N
CPS				
Census numident race codes=bestrace var	RACE	00112	1	A/N
Citizen Change Date Century	CITIZCC	00085	2	A/N
Citizen Change Date Year	CITIZYY	00088	2	A/N
DOB missing due to no numident match	DOBMISSING_NOMA	<mark>АТС</mark> Ө0111	1	A/N
Date of birth has been edited	DOBEDIT	00109	1	A/N
Date of birth imputation flag	DOBIMPUTED	00083	1	A/N
Date of birth missing in Numident	DOBMISSING	00110	1	A/N
Date of birth, sas format	DOB	00000	8	N
Ever Alien Flag	ALIEN	00084	1	A/N
First Internal SIPP ID matched to PIK	SIPPINTID1	00127	19	A/N
First year this Pik matches CPS	YEARCPS1	00033	3	N
Fourth Internal SIPP ID matched to PIK	SIPPINTID4	00184	19	A/N
Gender imputation flag	SEXIMPUTED	00082	1	A/N
Illegal SSN Range Flag	SSNFLAG	00203	1	A/N
Imputed education length	EDIMP1	00069	3	N
Month of first time this Pik matches CPS	MNTHCPS1	00039	3	N
Month of second time this Pik matches CPS	MNTHCPS2	00042	3	N
Number of SIPP Panels where Duplicate INTIDs	DUPINSIPPPANEL	00054	3	N
match to PIK				
Number of SIPP Panels where this PIK is found	COUNT_SIPPPANEL	S 00051	3	N
Numident variable=gender	SEX	00081	1	A/N
POB foreign indicator	POBFIN	00102	1	A/N
Pik duplicated across years, mapped to multiple CPS	CPSDUPIKCY	00024	3	N
IDs, different years				
Pik duplicated within year, mapped to multiple CPS	CPSDUPIK1	00027	3	N
IDs,single year				
Pik duplicated within year, mapped to multiple CPS	CPSDUPIK2	00030	3	N
IDs,single year				
Protected Identification Key	PIK	00072	9	A/N
SAS Date Value Date of Death	DOD	00008	8	N
SIPP PANEL of first INTID	PANELSIPP1	00057	3	N
SIPP PANEL of first INTID	PANELSIPP2	00060	3	N
SIPP PANEL of first INTID	PANELSIPP3	00063	3	N
SIPP PANEL of first INTID	PANELSIPP4	00066	3	N
Second Internal SIPP ID matched to PIK	SIPPINTID2	00146	19	A/N
Second year this Pik matches CPS	YEARCPS2	00036	3	N
State	STATE	00016	8	N
Third Internal SIPP ID matched to PIK	SIPPINTID3	00165	19	A/N
Year of latest PCF extract	YOPCF	00045	3	N
Year of latest StAR extract	YOSE	00048	3	N
citizen code	CITIZEN	00087	1	A/N
city, county of birth	POBCITY	00090	12	A/N
source of data	SOURCE	00105	2	A/N
state, country of birth	POBST	00103	2	A/N
type of source	SOURCETP	00107	2	A/N

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Values for select variables

CITIZEN

- A US citizen
- B legal alien, authorized to work
- C legal alien, not authorized to work
- D other
- E alien student, restricted work authorized
- F conditionally legalized alien

ALIEN

- 0 blank or 'A' existed as a citizenship code for this SSN and citizenship code was never (B,C,D,E, or F)
- 1 (B,C,D,E, or F) existed as a citizenship code for this SSN
- 2 'D' existed as a citizenship code for this SSN and citizenship code for this SSN was never (B,C,E, or F)

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6.2.5 Age and sex implicates: ICF_zz_implicates_age_sex

The first implicate for both date of birth and sex are stored on the main ICF file as DOB and SEX. Imputed values are flagged by the appropriate flag. Other implicates are found in this file, and can be merged on when required.

Record identifier PIK

Sort order PIK

Entity PIK

Unique Entity Key PIK

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Date of birth imputation flag	DOBIMPUTED	00082	1	A/N
Date of birth, SAS format (Implicate 10)	DOB10	00064	8	N
Date of birth, SAS format (Implicate 2)	DOB2	00000	8	N
Date of birth, SAS format (Implicate 3)	DOB3	00008	8	N
Date of birth, SAS format (Implicate 4)	DOB4	00016	8	N
Date of birth, SAS format (Implicate 5)	DOB5	00024	8	N
Date of birth, SAS format (Implicate 6)	DOB6	00032	8	N
Date of birth, SAS format (Implicate 7)	DOB7	00040	8	N
Date of birth, SAS format (Implicate 8)	DOB8	00048	8	N
Date of birth, SAS format (Implicate 9)	DOB9	00056	8	N
Gender imputation flag	SEXIMPUTED	00081	1	A/N
Numident variable=gender (Implicate 10)	SEX10	00091	1	A/N
Numident variable=gender (Implicate 2)	SEX2	00083	1	A/N
Numident variable=gender (Implicate 3)	SEX3	00084	1	A/N
Numident variable=gender (Implicate 4)	SEX4	00085	1	A/N
Numident variable=gender (Implicate 5)	SEX5	00086	1	A/N
Numident variable=gender (Implicate 6)	SEX6	00087	1	A/N
Numident variable=gender (Implicate 7)	SEX7	00088	1	A/N
Numident variable=gender (Implicate 8)	SEX8	00089	1	A/N
Numident variable=gender (Implicate 9)	sex9	00090	1	A/N
Protected Identification Key	PIK	00072	9	A/N

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Education implicates: ICF_zz_implicates_education $\overline{6.2.6}$

The first implicate is stored on the main ICF file as EDIMP1. No flag exists, since all values are imputed. Other implicates are found in this file, and can be merged on when required.

Record identifier PIK

Sort order PIK

Entity PIK

Unique Entity Key PIK

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Imputed education length (implicate 10) run	EDIMP10	00024	3	N
Imputed education length (implicate 2)	EDIMP2	00000	3	N
Imputed education length (implicate 3)	EDIMP3	00003	3	N
Imputed education length (implicate 4)	EDIMP4	00006	3	N
Imputed education length (implicate 5)	EDIMP5	00009	3	N
Imputed education length (implicate 6)	EDIMP6	00012	3	N
Imputed education length (implicate 7)	EDIMP7	00015	3	N
Imputed education length (implicate 8)	EDIMP8	00018	3	N
Imputed education length (implicate 9)	EDIMP9	00021	3	N
Protected Identification Key	PIK	00027	9	A/N

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6.2.7 Title 26 information: ICF_zz_t26

FTI has been removed from the core ICF, and stored separately. Note that in the RDC network, this file is stored under a separate set of permissions, and if users require access to this information, need to request access to an additional group. T26 variables are starred below.

The ICF_zz_T26 county variable is the observed value of residence corresponding to the "best" value from the perspective of the LEHD processing system, or the first implicate. For time-varying residence, please see ICF_zz_T26_IMRPOVED.

Record identifier PIK

Sort order PIK

Entity PIK

Unique Entity Key PIK

Values for select variables

ADDRESS_YEAR

112.2.1(2.55.1.2.11)
legal alien, authorized to work
legal alien, not authorized to work
other
alien student, restricted work authorized
conditionally legalized alien

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Admin record huid	HUID_1999 *	00047	35	A/N
Admin record source of huid	HUIDSRC_1999 *	00082	7	A/N
Basic street address conflict flag	HSRC23_1999 *	00089	7	A/N
County of Residence as of year 1999:2	COUNTY_LIVE *	00041	5	A/N
County of Residence imputation flag	COUNTYLIVEIMPU	TED00046	1	A/N
Flag quality of latitude/longitude of residence	FLAG_LATLONG	00000	8	N
Latitude of residence, 6 implied decimal places	LATITUDE_LIVE	00008	8	N
	*			
Longitude of residence, 6 implied decimal places	LONGITUDE_LIVE	00016	8	N
	*			
Protected Identification Key	PIK	00032	9	A/N
State (derived from UI wage records)	STATE	00024	8	N

$\overline{6.2.8}$ Residence implicates: ICF_zz_implicates_county

The first implicate is stored on the ICF_t26 file as COUNTY_LIVE. Imputed values are flagged there by an appropriate flag COUNTYLIVEIMPUTED. Other implicates are found in this file, and can be merged on when required. NOTE: This file was created for ICF_T26. It was not recreated for ICF_T26_IMPROVED, and is likely inconsistent.

Record identifier PIK

Sort order PIK

Entity PIK

Unique Entity Key PIK

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
County of Residence (implicate 10) run	COUNTY_LIVE10	00049	5	A/N
County of Residence (implicate 2)	COUNTY_LIVE2	00009	5	A/N
County of Residence (implicate 3)	COUNTY_LIVE3	00014	5	A/N
County of Residence (implicate 4)	COUNTY_LIVE4	00019	5	A/N
County of Residence (implicate 5)	COUNTY_LIVE5	00024	5	A/N
County of Residence (implicate 6)	COUNTY_LIVE6	00029	5	A/N
County of Residence (implicate 7)	COUNTY_LIVE7	00034	5	A/N
County of Residence (implicate 8)	COUNTY_LIVE8	00039	5	A/N
County of Residence (implicate 9)	COUNTY_LIVE9	00044	5	A/N
County of Residence imputation flag	COUNTYLIVEIMPU	TED00054	1	A/N
Protected Identification Key	PIK	00000	9	A/N

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6.2.9 Title 26 information: ICF_zz_t26_improved

The ICF_zz_T26_improved was created later than the original S2008 snapshot, using draft methodology for ICF 4.0 (see S2011 documentation on how ICF4.0 differs from previous ICF versions). It contains observed or imputed county of residence for in-scope individuals for years 1999 or later, for each year in which the individual had positive earnings in state zz. If no observed residence county is found on the Census place of residence (file) (CPR), a lookup is performed, with alternating direction and increasing time difference, up to two years away from the year of work (+1,-1,+2,-2). If still no residence is found, then an imputation is performed, conditional on earnings categories and county of work.

CAVEAT: For Alaska, only information on 1999 is available.

CAVEAT: Whereas other S2008 files are internally consistent among themselves (for instance, a PIK is present in the ICF if and only if it was also present in that state's EHF), this may not be true for the ICF_zz_T26_improved.

Record identifier PIK-ADDRESSYEAR

Sort order PIK-ADDRESSYEAR

Entity PIK

Unique Entity Key PIK

Values for select variables

Reported frequencies have been rounded.

ADDRESS_YEAR	Percent
1999	11.4
2000	9.8
2001	9.6
2002	9.9
2003	9.9
2004	9.9
2005	10.0
2006	9.8
2007	9.8
2008	9.9

COUNTYLIVEIMPUTED	Label	Percent
0	Not imputed	98.2
1	Imputed	1.8
2	Undocumented	0.0

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Admin record huid	HUID	00041	35	A/N
Admin record source of huid	HUIDSRC	00076	7	A/N
Basic street address conflict flag	HSRC23	00083	7	A/N
County of Residence imputation flag	COUNTYLIVEIMPU	TED00095	1	A/N
County of residence as of ADDRESS_YEAR (FIPS	COUNTY_LIVE	00090	5	A/N
char 5)				
Creation tag	VINTAGE	00096	13	A/N
Flag quality of latitude/longitude of residence	FLAG_LATLONG	00000	8	N
Latitude of residence, 6 implied decimal places	LATITUDE_LIVE	00008	8	N
Longitude of residence, 6 implied decimal places	LONGITUDE_LIVE	00016	8	N
Protected Identification Key	PIK	00032	9	A/N
Source data: CPR or state-level imputation process	SOURCE	00109	3	A/N
State of residence as of ADDRESS_YEAR (FIPS char	STATE_RESIDENCE	00112	2	$\dot{\rm A/N}$
2)				,
Year of observed or imputed address	ADDRESS_YEAR	00024	8	\mathbf{N}

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6.2.10 Summary information on datasets

The information in this section does not include data on ${\tt ICF_zz_t26_improved}$.

Table 6.7: Number of observations for ICF

	Number of	Records	Filesize
Group	datafiles	(1000s)	(GB)
ICF	188	738,400	55

Table 6.8: List of data files for ICF, by state

File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)
Alaska (ak)		· · · · ·		
icf_ak	1990Q1	2008Q4	1,200	< 5
icf_ak_implicates_age_sex	1990Q1	2008Q4	< 100	< 5
icf_ak_implicates_county	1990Q1	2008Q4	100	< 5
icf_ak_implicates_education	1990Q1	2008Q4	1,200	< 5
Alabama (al)				
icf_al	2001Q1	2008Q4	4,000	< 5
icf_al_implicates_age_sex	2001Q1	2008Q4	100	< 5
icf_al_implicates_county	2001Q1	2008Q4	400	< 5
icf_al_implicates_education	2001Q1	2008Q4	4,000	< 5
Arkansas (ar)				
icf_ar	2002Q3	2008Q4	2,500	< 5
icf_ar_implicates_age_sex	2002Q3	2008Q4	< 100	< 5
icf_ar_implicates_county	2002Q3	2008Q4	300	< 5
icf_ar_implicates_education	2002Q3	2008Q4	2,500	< 5
Arizona (az)			,	
icf_az	1992Q1	2008Q4	7,600	< 5
icf_az_implicates_age_sex	1992Q1	2008Q4	300	< 5
icf_az_implicates_county	1992Q1	2008Q4	1,100	< 5
icf_az_implicates_education	1992Q1	2008Q4	7,600	< 5
California (ca)			- ,	
icf_ca	1991Q3	2008Q4	40,800	< 5
icf_ca_implicates_age_sex	1991Q3	2008Q4	3,800	< 5
icf_ca_implicates_county	1991Q3	2008Q4	9,700	< 5
icf_ca_implicates_education	1991Q3	2008Q4	40,800	< 5
Colorado (co)			,	
icf_co	1990Q1	2008Q4	8,000	< 5
icf_co_implicates_age_sex	1990Q1	2008Q4	500	< 5
icf_co_implicates_county	1990Q1	2008Q4	1,200	< 5
icf_co_implicates_education	1990Q1	2008Q4 2008Q4	8,000	< 5
Delaware (de)	1000@1	2000-6-	0,000	
icf_de	1998Q3	2008Q4	1,100	< 5
icf_de_implicates_age_sex	1998Q3	2008Q4 2008Q4	< 100	< 5
icf_de_implicates_county	1998Q3	2008Q4 2008Q4	100	< 5
icf_de_implicates_education	1998Q3	2008Q4 2008Q4	1,100	< 5
Florida (fl)	1990.00	2000-24	1,100	
icf_fl	1992Q4	2008Q4	22,800	/ 5
icf_fl_implicates_age_sex	1992Q4 1992Q4	2008Q4 2008Q4	1,300	< 5 < 5
ici_ii_iiipiicates_age_sex	1992Q4	2008Q4	1,300	< 5 (con

r	Table 6.8 – 0	Continued		
File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)
icf_fl_implicates_county	1992Q4	2008Q4	4,200	< 5
icf_fl_implicates_education	1992Q4	2008Q4	22,800	< 5
Georgia (ga)	· · · · · ·			
icf_ga	1994Q1	2008Q4	11,500	< 5
icf_ga_implicates_age_sex	1994Q1	2008Q4	800	< 5
icf_ga_implicates_county	1994Q1	2008Q4	1,900	< 5
icf_ga_implicates_education	1994Q1	2008Q4	11,500	< 5
Hawaii (hi)	<u> </u>		·	
icf_hi	1995Q4	2008Q4	1,300	< 5
icf_hi_implicates_age_sex	1995Q4	2008Q4	< 100	< 5
icf_hi_implicates_county	1995Q4	2008Q4	200	< 5
icf_hi_implicates_education	1995Q4	2008Q4	1,300	< 5
Iowa (ia)			,	
icf_ia ′	1998Q4	2008Q4	3,200	< 5
icf_ia_implicates_age_sex	1998Q4	2008Q4	< 100	< 5
icf_ia_implicates_county	1998Q4	2008Q4	300	< 5
icf_ia_implicates_education	1998Q4	2008Q4	3,200	< 5
Idaho (id)			-,	
icf_id	1990Q1	2008Q4	2,200	< 5
icf_id_implicates_age_sex	1990Q1	2008Q4	< 100	< 5
icf_id_implicates_county	1990Q1	2008Q4	300	< 5
icf_id_implicates_education	1990Q1	2008Q4	2,200	< 5
Illinois (il)	1000 4,1	2000 4,1	2,200	
icf_il	1990Q1	2008Q4	16,200	< 5
icf_il_implicates_age_sex	1990Q1	2008Q4	1,100	< 5
icf_il_implicates_county	1990Q1	2008Q4	2,700	< 5
icf_il_implicates_education	1990Q1	2008Q4	16,200	< 5
Indiana (in)	1000-41	2000-0-1	10,200	
icf_in	1990Q1	2008Q4	8,000	< 5
icf_in_implicates_age_sex	1990Q1	2008Q4 2008Q4	300	< 5
icf_in_implicates_county	1990Q1	2008Q4 2008Q4	800	< 5
icf_in_implicates_education	1990Q1	2008Q4 2008Q4	8,000	< 5
Kansas (ks)	1330&1	2000-04	0,000	
icf_ks	1990Q1	2008Q4	4,600	< 5
icf_ks_implicates_age_sex	1990Q1 1990Q1	2008Q4 2008Q4	300	< 5 < 5
			700	
icf_ks_implicates_county icf_ks_implicates_education	1990Q1 1990Q1	$\frac{2008\text{Q4}}{2008\text{Q4}}$	4,600	$\frac{< 5}{< 5}$
Kentucky (ky)	1990Q1	2006Q4	4,000	
	1996Q4	200904	4.600	/ F
icf_ky	1996Q4 1996Q4	2008Q4	4,600	$\frac{< 5}{< 5}$
icf_ky_implicates_age_sex		2008Q4	100	
icf_ky_implicates_county	1996Q4	2008Q4	500	< 5
icf_ky_implicates_education	1996Q4	2008Q4	4,600	< 5
Louisiana (la)	100001	200204	F 000	2 F
icf_la	1990Q1	2008Q4	5,800	< 5
icf_la_implicates_age_sex	1990Q1	2008Q4	200	< 5
icf_la_implicates_county	1990Q1	2008Q4	700	< 5
icf_la_implicates_education	1990Q1	2008Q4	5,800	< 5
Maryland (md)	100500	2000001	0.000	. =
icf_md	1985Q2	2008Q4	8,600	< 5
				(cont)

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File name	Table 6.8 – C StartYQ	EndYQ	Obs. (1000s)	Size (GB)
icf_md_implicates_age_sex	1985Q2	2008Q4	300	< 5
icf_md_implicates_county	1985Q2	2008Q4	1,300	< 5
icf_md_implicates_education	1985Q2	2008Q4	8,600	< 5
Maine (me)	-			
icf_me	1996Q1	2008Q4	1,500	< 5
icf_me_implicates_age_sex	1996Q1	2008Q4	< 100	< 5
icf_me_implicates_county	1996Q1	2008Q4	200	< 5
icf_me_implicates_education	1996Q1	2008Q4	1,500	< 5
Michigan (mi)				
icf_mi	1998Q1	2008Q4	8,800	< 5
icf_mi_implicates_age_sex	1998Q1	2008Q4	200	< 5
icf_mi_implicates_county	1998Q1	2008Q4	800	< 5
icf_mi_implicates_education	1998Q1	2008Q4	8,800	< 5
Minnesota (mn)	•			
icf_mn	1994Q3	2008Q4	5,800	< 5
icf_mn_implicates_age_sex	1994Q3	2008Q4	300	< 5
icf_mn_implicates_county	1994Q3	2008Q4	700	< 5
icf_mn_implicates_education	1994Q3	2008Q4	5,800	< 5
Missouri (mo)				
icf_mo	1990Q1	2008Q4	8,000	< 5
icf_mo_implicates_age_sex	1990Q1	2008Q4	300	< 5
icf_mo_implicates_county	1990Q1	2008Q4	900	< 5
icf_mo_implicates_education	1990Q1	2008Q4	8,000	< 5
Mississippi (ms)				
icf_ms	2003Q3	2008Q4	2,300	< 5
icf_ms_implicates_age_sex	2003Q3	2008Q4	< 100	< 5
icf_ms_implicates_county	2003Q3	2008Q4	200	< 5
icf_ms_implicates_education	2003Q3	2008Q4	2,300	< 5
Montana (mt)				
icf_mt	1993Q1	2008Q4	1,300	< 5
icf_mt_implicates_age_sex	1993Q1	2008Q4	< 100	< 5
icf_mt_implicates_county	1993Q1	2008Q4	100	< 5
icf_mt_implicates_education	1993Q1	2008Q4	1,300	< 5
North Carolina (nc)				
icf_nc	1991Q1	2008Q1	11,600	< 5
icf_nc_implicates_age_sex	1991Q1	2008Q1	800	< 5
icf_nc_implicates_county	1991Q1	2008Q1	1,800	< 5
icf_nc_implicates_education	1991Q1	2008Q1	11,600	< 5
North Dakota (nd)				
icf_nd	1998Q1	2008Q4	800	< 5
icf_nd_implicates_age_sex	1998Q1	2008Q4	< 100	< 5
icf_nd_implicates_county	1998Q1	2008Q4	< 100	< 5
icf_nd_implicates_education	1998Q1	2008Q4	800	< 5
Nebraska (ne)				
icf_ne	1999Q1	2008Q4	2,000	< 5
icf_ne_implicates_age_sex	1999Q1	2008Q4	< 100	< 5
icf_ne_implicates_county	1999Q1	2008Q4	200	< 5
icf_ne_implicates_education	1999Q1	2008Q4	2,000	< 5
New Jersey (nj)			*	

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	Table 6.8 – 0	Continued		
File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)
icf_nj	1996Q1	2008Q4	10,000	< 5
icf_nj_implicates_age_sex	1996Q1	2008Q4	500	< 5
icf_nj_implicates_county	1996Q1	2008Q4	1,800	< 5
icf_nj_implicates_education	1996Q1	2008Q4	10,000	< 5
New Mexico (nm)	1000 461		20,000	
icf_nm	1995Q3	2008Q4	2,400	< 5
icf_nm_implicates_age_sex	1995Q3	2008Q4	< 100	< 5
icf_nm_implicates_county	1995Q3	2008Q4	300	< 5
icf_nm_implicates_education	1995Q3	2008Q4	2,400	< 5
Nevada (nv)			_,	
icf_nv	1998Q1	2008Q4	3,500	< 5
icf_nv_implicates_age_sex	1998Q1	2008Q4	200	< 5
icf_nv_implicates_county	1998Q1	2008Q4	600	< 5
icf_nv_implicates_education	1998Q1	2008Q4 2008Q4	3,500	< 5
New York (ny)	1000-021	2000@1	9,000	
icf_ny	1995Q1	2008Q4	21,900	< 5
icf_ny_implicates_age_sex	1995Q1	2008Q4 2008Q4	1,100	< 5
icf_ny_implicates_county	1995Q1	2008Q4 2008Q4	3,800	< 5
icf_ny_implicates_education	1995Q1	2008Q4 2008Q4	21,900	< 5
Ohio (oh)	1330Q1	200004	21,300	
icf_oh	2000Q1	2008Q4	10,000	< 5
icf_oh_implicates_age_sex	2000Q1 2000Q1	2008Q4 2008Q4	200	< 5
icf_oh_implicates_county	2000Q1 2000Q1	2008Q4 2008Q4	900	$\phantom{00000000000000000000000000000000000$
icf_oh_implicates_education	2000Q1 2000Q1	2008Q4 2008Q4	10,000	< 5
Oklahoma (ok)	2000Q1	2006Q4	10,000	< 0
icf_ok	2000Q1	2008Q4	3,300	< 5
icf_ok_implicates_age_sex	2000Q1 2000Q1	2008Q4 2008Q4	< 100	< 5
icf_ok_implicates_county	2000Q1 2000Q1	2008Q4 2008Q4	300	< 5
icf_ok_implicates_education	2000Q1 2000Q1	2008Q4 2008Q4	3,300	< 5
	2000Q1	2006Q4	3,300	< 0
Oregon (or) icf_or	1991Q1	200004	F 200	. E
	1991Q1 1991Q1	2008Q4 2008Q4	5,300	< 5 < 5
icf_or_implicates_age_sex			300	
icf_or_implicates_county	1991Q1 1991Q1	2008Q4	5,300	< 5 < 5
icf_or_implicates_education	1991Q1	2008Q4	5,300	< 9
Pennsylvania (pa)	100101	000004	14.000	
icf_pa	1991Q1	2008Q4	14,000	< 5
icf_pa_implicates_age_sex	1991Q1	2008Q4	400	< 5
icf_pa_implicates_county	1991Q1	2008Q4	1,500	< 5
icf_pa_implicates_education	1991Q1	2008Q4	14,000	< 5
Rhode Island (ri)	100501	200001	1 400	
icf_ri	1995Q1	2008Q4	1,400	< 5
icf_ri_implicates_age_sex	1995Q1	2008Q4	< 100	< 5
icf_ri_implicates_county	1995Q1	2008Q4	200	< 5
icf_ri_implicates_education	1995Q1	2008Q4	1,400	< 5
South Carolina (sc)				
icf_sc	1998Q1	2008Q4	4,900	< 5
icf_sc_implicates_age_sex	1998Q1	2008Q4	200	< 5
icf_sc_implicates_county	1998Q1	2008Q4	600	< 5
				(cont

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File name	able 6.8 – C StartYQ	EndYQ	Obs. (1000s)	Size (GB)
icf_sc_implicates_education	1998Q1	2008Q4	4,900	< 5
South Dakota (sd)			, -	
icf_sd	1994Q1	2008Q4	1,100	< 5
icf_sd_implicates_age_sex	1994Q1	2008Q4	< 100	< 5
icf_sd_implicates_county	1994Q1	2008Q4	< 100	< 5
icf_sd_implicates_education	1994Q1	2008Q4	1,100	< 5
Tennessee (tn)			,	
icf_tn	1998Q1	2008Q4	6,700	< 5
icf_tn_implicates_age_sex	1998Q1	2008Q4	200	< 5
icf_tn_implicates_county	1998Q1	2008Q4	700	< 5
icf_tn_implicates_education	1998Q1	2008Q4	6,700	< 5
Texas (tx)	1000 4	_0004	0,.00	
icf_tx	1995Q1	2008Q4	24,100	< 5
icf_tx_implicates_age_sex	1995Q1	2008Q4 2008Q4	1,700	< 5
icf_tx_implicates_county	1995Q1	2008Q4 2008Q4	4,400	< 5
icf_tx_implicates_education	1995Q1	2008Q4 2008Q4	24,100	< 5
Utah (ut)	100001	2000-64	24,100	
icf_ut	1999Q1	2008Q4	2,700	< 5
icf_ut_implicates_age_sex	1999Q1 1999Q1	2008Q4 2008Q4	100	< 5
icf_ut_implicates_age_sex icf_ut_implicates_county	1999Q1 1999Q1	2008Q4 2008Q4	400	< 5
icf_ut_implicates_education	1999Q1 1999Q1	2008Q4 2008Q4	2,700	< 5
Virginia (va)	1999Q1	2006Q4	2,700	< 0
icf_va	1998Q1	2008Q4	8,700	< 5
icf_va_implicates_age_sex	1998Q1 1998Q1	2008Q4 2008Q4	300	< 5
icf_va_implicates_age_sex icf_va_implicates_county		2008Q4 2008Q4	1,200	< 5 < 5
	1998Q1			
icf_va_implicates_education	1998Q1	2008Q4	8,700	< 5
Vermont (vt)	200001	200204	700	
icf_vt	2000Q1	2008Q4	700	< 5
icf_vt_implicates_age_sex	2000Q1	2008Q4	< 100	< 5
icf_vt_implicates_county	2000Q1	2008Q4	< 100	< 5
icf_vt_implicates_education	2000Q1	2008Q4	700	< 5
Washington (wa)	100001	20022	2 22 -	
icf_wa	1990Q1	2008Q4	8,900	< 5
icf_wa_implicates_age_sex	1990Q1	2008Q4	500	< 5
icf_wa_implicates_county	1990Q1	2008Q4	1,500	< 5
icf_wa_implicates_education	1990Q1	2008Q4	8,900	< 5
Wisconsin (wi)	400-0			
icf_wi	1990Q1	2008Q4	6,400	< 5
icf_wi_implicates_age_sex	1990Q1	2008Q4	100	< 5
icf_wi_implicates_county	1990Q1	2008Q4	500	< 5
icf_wi_implicates_education	1990Q1	2008Q4	6,400	< 5
West Virginia (wv)				
icf_wv	1997Q1	2008Q4	1,800	< 5
icf_wv_implicates_age_sex	1997Q1	2008Q4	< 100	< 5
icf_wv_implicates_county	1997Q1	2008Q4	100	< 5
icf_wv_implicates_education	1997Q1	2008Q4	1,800	< 5
Wyoming (wy)	<u> </u>	·		
icf_wy	1992Q1	2008Q4	1,200	< 5
icf_wy_implicates_age_sex	1992Q1	2008Q4	< 100	< 5
,			1 200	(co:

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Table 6.8 – Continued						
File name	StartYQ	EndYQ	Obs. $(1000s)$	Size (GB)		
icf_wy_implicates_county	1992Q1	2008Q4	100	< 5		
icf_wy_implicates_education	1992Q1	2008Q4	1,200	< 5		

Number of files for each data set group and state. Aggregate size of all files in GB in parentheses.

Table 6.9: Number of observations for ICFT26

	Number of	Records	Filesize
Group	datafiles	(1000s)	(GB)
ICFT26	47	334,800	30

Table 6.10: List of data files for ICFT26, by state

File name	StartYQ	EndYQ	Obs. $(1000s)$	Size (GB)	
Alaska (ak)					
icf_ak_t26	1990Q1	2008Q4	1,200	< 5	
Alabama (al)					
$_{\rm icf_al_t26}$	2001Q1	2008Q4	4,000	< 5	
Arkansas (ar)					
$_{\rm icf_ar_t26}$	2002Q3	2008Q4	2,500	< 5	
Arizona (az)					
icf_az_t26	1992Q1	2008Q4	7,600	< 5	
California (ca)					
icf_ca_t26	1991Q3	2008Q4	40,800	< 5	
Colorado (co)					
icf_co_t26	1990Q1	2008Q4	8,000	< 5	
Delaware (de)					
icf_de_t26	1998Q3	2008Q4	1,100	< 5	
Florida (fl)					
icf_fl_t26	1992Q4	2008Q4	22,800	< 5	
Georgia (ga)					
icf_ga_t26	1994Q1	2008Q4	11,500	< 5	
Hawaii (hi)					
icf_hi_t26	1995Q4	2008Q4	1,300	< 5	
Iowa (ia)		_			
icf_ia_t26	1998Q4	2008Q4	3,200	< 5	
Idaho (id)					
icf_id_t26	1990Q1	2008Q4	2,200	< 5	
Illinois (il)	100001	20020:	40.000		
icf_il_t26	1990Q1	2008Q4	16,200	< 5	
Indiana (in)	100001	20020:	2.222		
icf_in_t26	1990Q1	2008Q4	8,000	< 5	
Kansas (ks)	400001	20020:			
icf_ks_t26	1990Q1	2008Q4	4,600	< 5	
Kentucky (ky)				_	
icf_ky_t26	1996Q4	2008Q4	4,600	< 5	
Louisiana (la)					
icf_la_t26	1990Q1	2008Q4	5,800	< 5	
					(cont)

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CHAPTER 6. INDIVIDUAL CHARACTERISTICS FILE (ICF)

EICO: HIBITIE CHE CHIH				
E:1 0, 170		6.10 – Continue		
File name StartYQ	EndYQ	Obs. (1000s)	Size (GB)	
Maryland (md)	2000004	0.000		
icf_md_t26 1985Q2	2008Q4	8,600	< 5	
Maine (me)	2000004	1 500		
icf_me_t26 1996Q1	2008Q4	1,500	< 5	
Michigan (mi)	200001	0.000		
icf_mi_t26 1998Q1	2008Q4	8,800	< 5	
Minnesota (mn)	200001	- 000		
icf_mn_t26 1994Q3	2008Q4	5,800	< 5	
Missouri (mo)	20000	2.000	_	
icf_mo_t26 1990Q1	2008Q4	8,000	< 5	
Mississippi (ms)			_	
icf_ms_t26 2003Q3	2008Q4	2,300	< 5	
Montana (mt)				
icf_mt_t26 1993Q1	2008Q4	1,300	< 5	
North Carolina (nc)				
icf_nc_t26 1991Q1	2008Q1	11,600	< 5	
North Dakota (nd)				
icf_nd_t26 1998Q1	2008Q4	800	< 5	
Nebraska (ne)				
icf_ne_t26 1999Q1	2008Q4	2,000	< 5	
New Jersey (nj)				
icf_nj_t26	2008Q4	10,000	< 5	
New Mexico (nm)				
icf_nm_t26 1995Q3	2008Q4	2,400	< 5	
Nevada (nv)				
icf_nv_t26 1998Q1	2008Q4	3,500	< 5	
New York (ny)				
icf_ny_t26 1995Q1	2008Q4	21,900	< 5	
Ohio (oh)				
icf_oh_t26 2000Q1	2008Q4	10,000	< 5	
Oklahoma (ok)				
icf_ok_t26 2000Q1	2008Q4	3,300	< 5	
Oregon (or)				
icf_or_t26 1991Q1	2008Q4	5,300	< 5	
Pennsylvania (pa)				
icf_pa_t26 1991Q1	2008Q4	14,000	< 5	
Rhode Island (ri)				
icf_ri_t26 1995Q1	2008Q4	1,400	< 5	
South Carolina (sc)				
icf_sc_t26 1998Q1	2008Q4	4,900	< 5	
South Dakota (sd)	-			
icf_sd_t26 1994Q1	2008Q4	1,100	< 5	
Tennessee (tn)				
icf_tn_t26 1998Q1	2008Q4	6,700	< 5	
Texas (tx)		· · · · · ·		
icf_tx_t26 1995Q1	2008Q4	24,100	< 5	
Utah (ut)		·		
icf_ut_t26	2008Q4	2,700	< 5	
		· · · · · · · · · · · · · · · · · · ·		(cont)
				` /

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CHAPTER 6. INDIVIDUAL CHARACTERISTICS FILE (ICF)

Table $6.10 - \text{Continued}$					
File name	StartYQ	EndYQ	Obs. $(1000s)$	Size (GB)	
Virginia (va)					
icf_va_t26	1998Q1	2008Q4	8,700	< 5	
Vermont (vt)					
icf_vt_t26	2000Q1	2008Q4	700	< 5	
Washington (v	va)				
icf_wa_t26	1990Q1	2008Q4	8,900	< 5	
Wisconsin (wi)				
icf_wi_t26	1990Q1	2008Q4	6,400	< 5	
West Virginia	(wv)				
icf_wv_t26	1997Q1	2008Q4	1,800	< 5	
Wyoming (wy)				
icf_wy_t26	1992Q1	2008Q4	1,200	< 5	

Number of files for each data set group and state. Aggregate size of all files in GB in parentheses.

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6.3 HELPFUL PROGRAMS

The following programs might be found to be useful when using the data.

6.3.1 Recombining T26 data with the core ICF

The following program allows users to combine the Title 26 variables with the core ICF. This program was used in slightly modified form for quality assurance during the preparation of the data for the RDC environment.

```
/* Time-stamp: <07/05/03 23:49:08 vilhuber> */
/* $Id: 02.02.combine_icf_t26.sas 121 2007-05-04 12:18:17Z vilhu001 $ */
%macro combine_icf_t26(state=,inlib=WORK,int26=WORK);
libname INLIB "/mixedtmp/lehd/s2004/icf/&state./";
libname INT26 "/mixedtmp/lehd/s2004/icft26/&state./";
libname INPUTS (&inlib., &int26.);
libname ORIG "/mixedtmp/lehd2/s2004_obsolete/icf_commingled/&state./" access=readonly;
proc sort data= ORIG.icf_&state out= icf_orig(compress=yes);
by pik;
run;
data work.merged(sortedby=pik state);
merge INPUTS.icf_&state._t26 INPUTS.icf_&state.;
by pik state;
run;
proc contents data=icf_orig;
proc contents data=work.merged;
run;
*proc compare data=icf_orig briefsummary compare=work.merged;
*run;
%mend;
/* example - this works for all states */
libname temp '/temporary/saswork1/snapshot';
options mprint symbolgen;
%combine_icf_t26(state=al,inlib=INLIB,int26=INT26);
```

6.3.2 Selecting a random subsample of persons

The following program allows users to select a random sample of approximately one percent of individuals on the ICF. It relies on the fact that the first two characters of the PIK are approximately uniformly distributed on [00, 99]. Note that 'AA' is a valid value for the first two characters and denotes individuals for whom no valid SSN was on file. Occurrence of such "pseudo-PIKs" varies by state.

$CHAPTER\ 6.\ \ INDIVIDUAL\ CHARACTERISTICS\ FILE\ (ICF)$

```
%let state=ca;
libname INLIB "/mixed/lehd/s2004/icf/&state./";
data my_icf;
  set INLIB.icf_&state.(where=(substr(PIK,1,2)='01'));
run;
```

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6.4 NOTES

- **CPS identifiers only up to 1997**. CPS identifiers were matched to the LEHD ICF for consenting CPS respondents from 1986-1997. Later years are currently not available.
- SIPP identifiers up to 2001. SIPP identifiers were matched to the LEHD ICF for consenting SIPP respondents between 1984 and 2001.

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Chapter 7. Quarterly Workforce Indicators - SEINUNIT file (QWI)

7.1 **OVERVIEW**

The Quarterly Workforce Indicators (QWI) establishment file Contains quarterly measures of workforce composition and worker turnover at the establishment level for selected states for 1990-2003 (exact years vary by state). The LEHD establishment-level measures are created from longitudinally integrated person and establishment-level data. Establishment-level measures include: (i) Worker and Job Flows: accessions, separations, job creation, job destruction by age and gender of workforce; (ii) Worker composition by gender and age, (iii) Worker compensation for stocks and flows by gender and age; (iv) Dynamic worker compensation summary statistics for stocks and flows by gender and age. The LEHD-QWI may be used in combination with the LEHD Business Register Bridge (LEHD-BRB) to match to other Census micro business databases, and can be by firm-establishment identifiers to other LEHD Infrastructure files.

7.2 DATA SET DESCRIPTIONS

7.2.1 Coverage of QWI

QWI data are available for all states that are LED-state partners, however, not every state is currently a LED-state partner. The QWI are built upon wage records in the UI system and information from state ES-202 data. The universe of QWI data is UI-covered earnings. UI coverage is broad, covering over 90% of total wage and salary civilian jobs.

When QWI private industry employment numbers are compared with other employment data, exclusions to UI coverage should be taken into account. Federal government employment is not generally included. Exempted employment varies slightly from state to state due to variations in state unemployment laws, but generally also excludes many farmers and agricultural employees, domestic workers, self-employed non-agricultural workers, members of the Armed Services, some state and local government employees as well as certain types of nonprofit employers and religious organizations (which are given a choice of coverage or noncoverage in a number of states). See "Employment that is not covered by state unemployment" (LEHD TP-2007-04) for a more detailed discussion.

7.2.2 Naming scheme

Describe the naming scheme.

qwi_zz_seinunit.sas7bdat

ZZ stands for the state postal abbreviation, and YYYY for a calendar year. You will find zero-observation SAS datasets attached to this document - see the attachment tab.

7.2.3 Data location

The files are stored in two main directories, with state-specific subdirectories:

qwi/ZZ/

On the RDC network, the directory can be found under

/mixed/lehd/current

7.2.4 Main dataset: QWI_ZZ_SEINUNIT

The QWI_ZZ_SEINUNIT file (LEHD internal name: UFFb) is a file at the SEINUNIT level, providing detailed statistics for an establishment (SEIN + SEINUNIT) at every combination of SEX x AGEGROUP. Age groups are defined using the WIA categorization. The agegroup and sex margins are represented as variable arrays in the UFFb.

Record identifier YEAR QUARTER SEIN SEINUNIT

Sort order YEAR QUARTER SEIN SEINUNIT

Entity Establishment

Unique Entity Key SEIN SEINUNIT

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
=0 from ECF_SEIN, =1 if from ECF_SEINUNIT, =z	UNIT_DETAIL_FLAG	07525	1	$\overline{\text{A/N}}$
not found				

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 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

emin ibit. Gemeratus weren enes insten		(• /		
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Accessions for Female and age 14-18	A_A2A01	01880	4	N
Accessions for Female and age 14-99	A_A2A00	01868	4	N
Accessions for Female and age 19-21	A_A2A02	01892	4	N
Accessions for Female and age 22-24	A_A2A03	01904	4	N
Accessions for Female and age 25-34	A_A2A04	01916	4	N
Accessions for Female and age 35-44	A_A2A05	01928	4	N
Accessions for Female and age 45-54	A_A2A06	01940	4	N
Accessions for Female and age 55-64	A_A2A07	01952	4	N
Accessions for Female and age 65-99	A_A2A08	01964	4	N
Accessions for Male and Female and age 14-18	A_A0A01	01872	4	N
Accessions for Male and Female and age 14-99	A_A0A00	01860	4	N
Accessions for Male and Female and age 19-21	A_A0A02	01884	4	N
Accessions for Male and Female and age 22-24	A_A0A03	01896	4	N
Accessions for Male and Female and age 25-34	A_A0A03 A_A0A04	01908	4	N
Accessions for Male and Female and age 25-34 Accessions for Male and Female and age 35-44	A_A0A04 A_A0A05	01908		
9			4	N
Accessions for Male and Female and age 45-54	A_A0A06	01932	4	N
Accessions for Male and Female and age 55-64	A_A0A07	01944	4	N
Accessions for Male and Female and age 65-99	A_A0A08	01956	4	N
Accessions for Male and age 14-18	A_A1A01	01876	4	N
Accessions for Male and age 14-99	A_A1A00	01864	4	N
Accessions for Male and age 19-21	A_A1A02	01888	4	N
Accessions for Male and age 22-24	A_A1A03	01900	4	N
Accessions for Male and age 25-34	A_A1A04	01912	4	N
Accessions for Male and age 35-44	A_A1A05	01924	4	N
Accessions for Male and age 45-54	A_A1A06	01936	4	N
Accessions for Male and age 55-64	A_A1A07	01948	4	N
Accessions for Male and age 65-99	A_A1A08	01960	4	N
Alternate definition of B that does not reflect flow sup-	BDOT_A2A01	05120	4	N
pression for Female and				
Alternate definition of B that does not reflect flow sup-	BDOT_A2A00	05108	4	N
pression for Female and				
Alternate definition of B that does not reflect flow sup-	$BDOT_A2A02$	05132	4	N
pression for Female and				
Alternate definition of B that does not reflect flow sup-	BDOT_A2A03	05144	4	N
pression for Female and				
Alternate definition of B that does not reflect flow sup-	BDOT_A2A04	05156	4	N
pression for Female and	DD 0121121101	00100	-	1,
Alternate definition of B that does not reflect flow sup-	BDOT_A2A05	05168	4	N
pression for Female and	DD012121100	00100	-	11
Alternate definition of B that does not reflect flow sup-	BDOT_A2A06	05180	4	N
-	BD01_A2A00	03100	4	11
pression for Female and Alternate definition of B that does not reflect flow sup-	DD 07 A 0 A 0 7	05100	4	N.T.
1	$BDOT_A2A07$	05192	4	N
pression for Female and	DD 07 40400	05004	4	ΝT
Alternate definition of B that does not reflect flow sup-	BDOT_A2A08	05204	4	N
pression for Female and	40404	0.440		3.7
Alternate definition of B that does not reflect flow sup-	BDOT_A0A01	05112	4	N
pression for Male and Fe	10100	22100		• •
Alternate definition of B that does not reflect flow sup-	$BDOT_A0A00$	05100	4	N
pression for Male and Fe				

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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORK Field name	Data dictionary	Starting	FILE (QW Field	Data
rieid name	reference name	position	size	type
Alternate definition of B that does not reflect flow sup-	BDOT_A0A02	05124	4	N
pression for Male and Fe				
Alternate definition of B that does not reflect flow sup-	BDOT_A0A03	05136	4	N
pression for Male and Fe				
Alternate definition of B that does not reflect flow sup-	BDOT_A0A04	05148	4	N
pression for Male and Fe				
Alternate definition of B that does not reflect flow sup-	$\mathtt{BDOT_A0A05}$	05160	4	N
pression for Male and Fe				
Alternate definition of B that does not reflect flow sup-	$BDOT_A0A06$	05172	4	N
pression for Male and Fe				
Alternate definition of B that does not reflect flow sup-	$BDOT_A0A07$	05184	4	\mathbf{N}
pression for Male and Fe				
Alternate definition of B that does not reflect flow sup-	$BDOT_A0A08$	05196	4	N
pression for Male and Fe				
Alternate definition of B that does not reflect flow sup-	BDOT_A1A01	05116	4	N
pression for Male and ag				
Alternate definition of B that does not reflect flow sup-	BDOT_A1A00	05104	4	N
pression for Male and ag				
Alternate definition of B that does not reflect flow sup-	BDOT_A1A02	05128	4	N
pression for Male and ag	4.4.00			
Alternate definition of B that does not reflect flow sup-	BDOT_A1A03	05140	4	N
pression for Male and ag	A 1 A 0 4	05150		3.7
Alternate definition of B that does not reflect flow sup-	BDOT_A1A04	05152	4	N
pression for Male and ag	A 1 A OF	05164	4	NT.
Alternate definition of B that does not reflect flow sup-	BDOT_A1A05	05164	4	N
pression for Male and ag	DD 0 T A 1 A 0 C	05176	4	N
Alternate definition of B that does not reflect flow sup-	BDOT_A1A06	05176	4	N
pression for Male and ag Alternate definition of B that does not reflect flow sup-	BDOT_A1A07	05188	4	N
pression for Male and ag	DDU1_ATAU1	03100	4	11
Alternate definition of B that does not reflect flow sup-	BDOT_A1A08	05200	4	N
pression for Male and ag	BD01_A1A00	05200	4	11
Alternate definition of E that does not reflect flow sup-	EDOT_A2A01	05228	4	N
pression for Female and	EDO1_1121101	05220	4	11
Alternate definition of E that does not reflect flow sup-	EDOT_A2A00	05216	4	N
pression for Female and	EBOTEITETTOO	00210	-	1,
Alternate definition of E that does not reflect flow sup-	EDOT_A2A02	05240	4	N
pression for Female and	250121102	00=10	-	- 1
Alternate definition of E that does not reflect flow sup-	EDOT_A2A03	05252	4	N
pression for Female and		00_0_		
Alternate definition of E that does not reflect flow sup-	$EDOT_A2A04$	05264	4	N
pression for Female and				
Alternate definition of E that does not reflect flow sup-	$EDOT_A2A05$	05276	4	N
pression for Female and				
Alternate definition of E that does not reflect flow sup-	$EDOT_A2A06$	05288	4	N
pression for Female and				
Alternate definition of E that does not reflect flow sup-	$EDOT_A2A07$	05300	4	N
pression for Female and				
Alternate definition of E that does not reflect flow sup-	EDOT_A2A08	05312	4	N
pression for Female and				

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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Alternate definition of E that does not reflect flow sup-	EDOT_A0A01	05220	4	N
pression for Male and Fe				
Alternate definition of E that does not reflect flow sup-	$EDOT_A0A00$	05208	4	N
pression for Male and Fe				
Alternate definition of E that does not reflect flow sup-	EDOT_ $A0A02$	05232	4	N
pression for Male and Fe				
Alternate definition of E that does not reflect flow sup-	EDOT_A0A03	05244	4	N
pression for Male and Fe	10101			
Alternate definition of E that does not reflect flow sup-	$EDOT_A0A04$	05256	4	N
pression for Male and Fe	10105	0.200		3.7
Alternate definition of E that does not reflect flow sup-	$EDOT_A0A05$	05268	4	N
pression for Male and Fe	1010	05000	4	3.7
Alternate definition of E that does not reflect flow sup-	$EDOT_A0A06$	05280	4	N
pression for Male and Fe	TD 07 40407	05000	4	N.T.
Alternate definition of E that does not reflect flow sup-	$EDOT_A0A07$	05292	4	N
pression for Male and Fe	EDOT_A0A08	05304	4	N
Alternate definition of E that does not reflect flow sup- pression for Male and Fe	EDOT_AUAU8	05504	4	IN
Alternate definition of E that does not reflect flow sup-	EDOT_A1A01	05224	4	N
pression for Male and ag	EDUI_AIA01	05224	4	11
Alternate definition of E that does not reflect flow sup-	EDOT_A1A00	05212	4	N
pression for Male and ag	EDOT_MIMOO	00212	4	11
Alternate definition of E that does not reflect flow sup-	EDOT_A1A02	05236	4	N
pression for Male and ag	EDOT_HTH02	09290	1	11
Alternate definition of E that does not reflect flow sup-	EDOT_A1A03	05248	4	N
pression for Male and ag	EBOT-HTT100	00210	1	1,
Alternate definition of E that does not reflect flow sup-	EDOT_A1A04	05260	4	N
pression for Male and ag				
Alternate definition of E that does not reflect flow sup-	EDOT_A1A05	05272	4	N
pression for Male and ag				
Alternate definition of E that does not reflect flow sup-	EDOT_A1A06	05284	4	N
pression for Male and ag				
Alternate definition of E that does not reflect flow sup-	EDOT_A1A07	05296	4	N
pression for Male and ag				
Alternate definition of E that does not reflect flow sup-	EDOT_A1A08	05308	4	N
pression for Male and ag				
Alternate definition of F that does not reflect flow sup-	FDOT_ $A2A01$	05336	4	N
pression for Female and				
Alternate definition of F that does not reflect flow sup-	$FDOT_A2A00$	05324	4	N
pression for Female and				
Alternate definition of F that does not reflect flow sup-	$FDOT_A2A02$	05348	4	N
pression for Female and	10100			
Alternate definition of F that does not reflect flow sup-	FDOT_A2A03	05360	4	N
pression for Female and	40404	05050	4	3.7
Alternate definition of F that does not reflect flow sup-	$FDOT_A2A04$	05372	4	N
pression for Female and	PDOT ADAOT	05904	Á	7N.T
Alternate definition of F that does not reflect flow sup-	FDOT_A2A05	05384	4	N
pression for Female and Alternate definition of F that does not reflect flow sup-	FDOT_A2A06	05396	1	N
pression for Female and	FD01_A4A00	09990	4	11
prositon for remain and				

 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

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Field name	Data dictionary	Starting	Field	Data
A1 1.6	reference name	position	size	type
Alternate definition of F that does not reflect flow sup-	FDOT_A2A07	05408	4	N
pression for Female and				
Alternate definition of F that does not reflect flow sup-	FDOT_A2A08	05420	4	N
pression for Female and				
Alternate definition of F that does not reflect flow sup-	$FDOT_A0A01$	05328	4	N
pression for Male and Fe				
Alternate definition of F that does not reflect flow sup-	$FDOT_A0A00$	05316	4	N
pression for Male and Fe				
Alternate definition of F that does not reflect flow sup-	$FDOT_A0A02$	05340	4	N
pression for Male and Fe				
Alternate definition of F that does not reflect flow sup-	$FDOT_A0A03$	05352	4	N
pression for Male and Fe	1201210100	00002	1	1,
Alternate definition of F that does not reflect flow sup-	FDOT_A0A04	05364	4	N
pression for Male and Fe	FD01_A0A04	05504	4	11
	TDOT 40405	05276	4	N.T
Alternate definition of F that does not reflect flow sup-	$FDOT_A0A05$	05376	4	N
pression for Male and Fe	10100	05000	,	3.7
Alternate definition of F that does not reflect flow sup-	$FDOT_A0A06$	05388	4	N
pression for Male and Fe				
Alternate definition of F that does not reflect flow sup-	FDOT_ $A0A07$	05400	4	N
pression for Male and Fe				
Alternate definition of F that does not reflect flow sup-	$FDOT_A0A08$	05412	4	N
pression for Male and Fe				
Alternate definition of F that does not reflect flow sup-	FDOT_A1A01	05332	4	N
pression for Male and ag				
Alternate definition of F that does not reflect flow sup-	FDOT_A1A00	05320	4	N
pression for Male and ag				
Alternate definition of F that does not reflect flow sup-	$FDOT_A1A02$	05344	4	N
pression for Male and ag	12012111102	00011	-	
Alternate definition of F that does not reflect flow sup-	FDOT_A1A03	05356	4	N
pression for Male and ag	15012111100	00000	-	11
Alternate definition of F that does not reflect flow sup-	FDOT_A1A04	05368	4	N
pression for Male and ag	FD01_A1A04	09900	4	11
	77 07 A 1 A 07	05200	4	N.T
Alternate definition of F that does not reflect flow sup-	FDOT_A1A05	05380	4	N
pression for Male and ag	1.1.1.0.0	05000	,	3.7
Alternate definition of F that does not reflect flow sup-	FDOT_A1A06	05392	4	N
pression for Male and ag				
Alternate definition of F that does not reflect flow sup-	FDOT_ $A1A07$	05404	4	N
pression for Male and ag				
Alternate definition of F that does not reflect flow sup-	FDOT_A1A08	05416	4	N
pression for Male and ag				
Average accession rate for Female and age 14-18	AR_A2A01	01988	4	\mathbf{N}
Average accession rate for Female and age 14-99	ARA2A00	01976	4	N
Average accession rate for Female and age 19-21	AR_A2A02	02000	4	N
Average accession rate for Female and age 22-24	AR_A2A03	02012	4	N
Average accession rate for Female and age 25-34	AR_A2A04	02012	4	N
Average accession rate for Female and age 35-44	AR_A2A05	02024	4	N
Average accession rate for Female and age 45-54	AR_A2A06	02030	4	N
	AR_A2A00 AR_A2A07			
Average accession rate for Female and age 55-64		02060	4	N
Average accession rate for Female and age 65-99	AR_A2A08	02072	4	N

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 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Average accession rate for Male and Female and age	AR_A0A01	01980	4	N
14-18				
Average accession rate for Male and Female and age	AR_A0A00	01968	4	N
14-99				
Average accession rate for Male and Female and age	AR_A0A02	01992	4	N
19-21				
Average accession rate for Male and Female and age	ARA0A03	02004	4	N
22-24				
Average accession rate for Male and Female and age	AR_A0A04	02016	4	N
25-34				
Average accession rate for Male and Female and age	AR_A0A05	02028	4	N
35-44	1.D. 1.0.1.0.0	00010	,	3.7
Average accession rate for Male and Female and age	AR_A0A06	02040	4	N
45-54	A.D. A.O.A.O.T.	00050	4	N T
Average accession rate for Male and Female and age	AR_A0A07	02052	4	N
55-64	AR_A0A08	02064	4	N
Average accession rate for Male and Female and age 65-99	AR_AUAU8	02064	4	N
Average accession rate for Male and age 14-18	AR_A1A01	01984	4	N
Average accession rate for Male and age 14-19	AR_A1A00	01934 01972	4	N
Average accession rate for Male and age 19-21	AR_A1A02	01996	4	N
Average accession rate for Male and age 15 21 Average accession rate for Male and age 22-24	AR_A1A03	02008	4	N
Average accession rate for Male and age 25-34	AR_A1A04	02020	4	N
Average accession rate for Male and age 25 57	AR_A1A05	02032	4	N
Average accession rate for Male and age 45-54	AR_A1A06	02044	4	N
Average accession rate for Male and age 55-64	AR_A1A07	02056	4	N
Average accession rate for Male and age 65-99	AR_A1A08	02068	4	N
Average employment for Female and age 14-18	EBAR_A2A01	00584	4	N
Average employment for Female and age 14-99	EBAR_A2A00	00572	4	N
Average employment for Female and age 19-21	EBAR_A2A02	00596	4	N
Average employment for Female and age 22-24	EBAR_A2A03	00608	$\overline{4}$	N
Average employment for Female and age 25-34	EBAR_A2A04	00620	$\overline{4}$	N
Average employment for Female and age 35-44	EBAR_A2A05	00632	$\overline{4}$	N
Average employment for Female and age 45-54	EBAR_A2A06	00644	$\overline{4}$	N
Average employment for Female and age 55-64	EBAR_A2A07	00656	4	N
Average employment for Female and age 65-99	EBAR_A2A08	00668	4	N
Average employment for Male and Female and age 14-	EBAR_A0A01	00576	4	N
18				
Average employment for Male and Female and age 14-	$EBAR_A0A00$	00564	4	N
99				
Average employment for Male and Female and age 19-	$\mathrm{Ebar}_{-}\mathrm{A0A02}$	00588	4	N
21				
Average employment for Male and Female and age 22-	EBAR_A0A03	00600	4	N
24				
Average employment for Male and Female and age 25-	$EBAR_A0A04$	00612	4	N
34				
Average employment for Male and Female and age 35-	EBAR_A0A05	00624	4	N
44				
Average employment for Male and Female and age 45-	EBAR_A0A06	00636	4	N
54				

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Field name	Data dictionary	Starting	Field	Data
rield name	reference name	position	size	type
Average employment for Male and Female and age 55-	EBAR_A0A07	00648	4	N
64				
Average employment for Male and Female and age 65-	EBAR_A0A08	00660	4	N
99				
Average employment for Male and age 14-18	EBAR_A1A01	00580	4	N
Average employment for Male and age 14-99	EBAR_A1A00	00568	4	N
Average employment for Male and age 19-21	EBAR_A1A02	00592	4	N
Average employment for Male and age 22-24	EBAR_A1A03	00604	4	\mathbf{N}
Average employment for Male and age 25-34	EBAR_A1A04	00616	4	N
Average employment for Male and age 35-44	EBAR_A1A05	00628	4	N
Average employment for Male and age 45-54	EBAR_A1A06	00640	4	N
Average employment for Male and age 55-64	EBAR_A1A07	00652	4	N
Average employment for Male and age 65-99	EBAR_A1A08	00664	4	N
Average full-quarter employment for Female and age	FBAR_A2A01	01232	4	N
14-18	T 10100	01000		N.T.
Average full-quarter employment for Female and age	FBAR_A2A00	01220	4	N
14-99	Data 40400	01044	4	™ T
Average full-quarter employment for Female and age	FBAR_A2A02	01244	4	N
19-21	Data 40409	01050	4	N.T.
Average full-quarter employment for Female and age	FBAR_A2A03	01256	4	N
22-24	Ep.p. 40404	01969	4	NT
Average full-quarter employment for Female and age	FBAR_A2A04	01268	4	N
25-34	FBAR_A2A05	01280	4	N
Average full-quarter employment for Female and age 35-44	r BAR_AZAU0	01260	4	1N
Average full-quarter employment for Female and age	FBAR_A2A06	01292	4	N
45-54	T DAIL_IIZIIO0	01232	4	11
Average full-quarter employment for Female and age	FBAR_A2A07	01304	4	N
55-64	1 15/11/2/10 (01001	1	1,
Average full-quarter employment for Female and age	FBAR_A2A08	01316	4	N
65-99	1 5(21121100	01010	-	- 1
Average full-quarter employment for Male and Female	FBAR_A0A01	01224	4	N
and age 14-18		V		
Average full-quarter employment for Male and Female	FBAR_A0A00	01212	4	N
and age 14-99				
Average full-quarter employment for Male and Female	FBAR_A0A02	01236	4	\mathbf{N}
and age 19-21				
Average full-quarter employment for Male and Female	FBAR_A0A03	01248	4	N
and age 22-24				
Average full-quarter employment for Male and Female	FBAR_A0A04	01260	4	N
and age 25-34				
Average full-quarter employment for Male and Female	$FBAR_A0A05$	01272	4	N
and age 35-44				
Average full-quarter employment for Male and Female	FBAR_A0A06	01284	4	N
and age 45-54				
Average full-quarter employment for Male and Female	FBAR_A0A07	01296	4	N
and age 55-64				
Average full-quarter employment for Male and Female	FBAR_A0A08	01308	4	N
and age 65-99				

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 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Average full-quarter employment for Male and age 14-18	FBAR_A1A01	01228	4	N
Average full-quarter employment for Male and age 14- 99	FBAR_A1A00	01216	4	N
Average full-quarter employment for Male and age 19-21	FBAR_A1A02	01240	4	N
Average full-quarter employment for Male and age $22-24$	FBAR_A1A03	01252	4	N
Average full-quarter employment for Male and age 25-34	FBAR_A1A04	01264	4	N
Average full-quarter employment for Male and age 35-44	FBAR_A1A05	01276	4	N
Average full-quarter employment for Male and age 45-54	FBAR_A1A06	01288	4	N
Average full-quarter employment for Male and age 55-64	FBAR_A1A07	01300	4	N
Average full-quarter employment for Male and age 65- 99	FBAR_A1A08	01312	4	N
Average full-quarter employment growth rate for Female and age 14-18	FG_A2A01	01340	4	N
Average full-quarter employment growth rate for Female and age 14-99	FG_A2A00	01328	4	N
Average full-quarter employment growth rate for Female and age 19-21	FG_A2A02	01352	4	N
Average full-quarter employment growth rate for Female and age 22-24	FG_A2A03	01364	4	N
Average full-quarter employment growth rate for Female and age 25-34	FG_A2A04	01376	4	N
Average full-quarter employment growth rate for Female and age 35-44	FG_A2A05	01388	4	N
Average full-quarter employment growth rate for Female and age 45-54	FG_A2A06	01400	4	N
Average full-quarter employment growth rate for Female and age 55-64	FG_A2A07	01412	4	N
Average full-quarter employment growth rate for Female and age 65-99	FG_A2A08	01424	4	N
Average full-quarter employment growth rate for Male and Female and age 14-18	FG_A0A01	01332	4	N
Average full-quarter employment growth rate for Male and Female and age 14-99	FG_A0A00	01320	4	N
Average full-quarter employment growth rate for Male and Female and age 19-21	FG_A0A02	01344	4	N
Average full-quarter employment growth rate for Male	FG_A0A03	01356	4	N
and Female and age 22-24 Average full-quarter employment growth rate for Male and Female and age 25-34	FG_A0A04	01368	4	N
Average full-quarter employment growth rate for Male	FG_A0A05	01380	4	N
and Female and age 35-44 Average full-quarter employment growth rate for Male	FG_A0A06	01392	4	N
and Female and age 45-54				

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Field name	Data dictionary reference name	Starting position	Field size	Data type
Average full-quarter employment growth rate for Male	FG_A0A07	01404	4	N
and Female and age 55-64				
Average full-quarter employment growth rate for Male and Female and age 65-99	FG_A0A08	01416	4	N
Average full-quarter employment growth rate for Male and age 14-18	FG_A1A01	01336	4	N
Average full-quarter employment growth rate for Male and age 14-99	FG_A1A00	01324	4	N
Average full-quarter employment growth rate for Male and age 19-21	FG_A1A02	01348	4	N
Average full-quarter employment growth rate for Male and age 22-24	FG_A1A03	01360	4	N
Average full-quarter employment growth rate for Male and age 25-34	FG_A1A04	01372	4	N
Average full-quarter employment growth rate for Male and age 35-44	FG_A1A05	01384	4	N
Average full-quarter employment growth rate for Male and age 45-54	FG_A1A06	01396	4	N
Average full-quarter employment growth rate for Male and age 55-64	FG_A1A07	01408	4	N
Average full-quarter employment growth rate for Male	FG_A1A08	01420	4	N
and age 65-99 Average full-quarter job creation rate for Female and	FJCR_A2A01	01556	4	N
age 14-18 Average full-quarter job creation rate for Female and	FJCRA2A00	01544	4	N
age 14-99 Average full-quarter job creation rate for Female and	FJCR_A2A02	01568	4	N
age 19-21 Average full-quarter job creation rate for Female and	FJCR_A2A03	01580	4	N
age 22-24 Average full-quarter job creation rate for Female and	FJCR_A2A04	01592	4	N
age 25-34 Average full-quarter job creation rate for Female and	FJCR_A2A05	01604	4	N
age 35-44 Average full-quarter job creation rate for Female and	FJCR_A2A06	01616	4	N
age 45-54 Average full-quarter job creation rate for Female and	FJCR_A2A07	01628	4	N
age 55-64 Average full-quarter job creation rate for Female and	FJCR_A2A08	01640	4	N
age 65-99 Average full-quarter job creation rate for Male and	FJCR_A0A01	01548	4	N
Female and age 14-18				
Average full-quarter job creation rate for Male and Female and age 14-99	FJCR_A0A00	01536	4	N
Average full-quarter job creation rate for Male and Female and age 19-21	$FJCR_A0A02$	01560	4	N
Average full-quarter job creation rate for Male and Female and age 22-24	FJCR_A0A03	01572	4	N
Average full-quarter job creation rate for Male and Female and age 25-34	FJCR_A0A04	01584	4	N
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 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Average full-quarter job creation rate for Male and Female and age 35-44	FJCR_A0A05	01596	4	N
Average full-quarter job creation rate for Male and Female and age 45-54	FJCR_A0A06	01608	4	N
Average full-quarter job creation rate for Male and Female and age 55-64	FJCR_A0A07	01620	4	N
Average full-quarter job creation rate for Male and	FJCR_A0A08	01632	4	N
Female and age 65-99 Average full-quarter job creation rate for Male and age 14-18	FJCR_A1A01	01552	4	N
Average full-quarter job creation rate for Male and age	FJCR_A1A00	01540	4	N
14-99 Average full-quarter job creation rate for Male and age	FJCR_A1A02	01564	4	N
19-21 Average full-quarter job creation rate for Male and age	FJCR_A1A03	01576	4	N
22-24 Average full-quarter job creation rate for Male and age	FJCR_A1A04	01588	4	N
25-34 Average full-quarter job creation rate for Male and age	FJCR_A1A05	01600	4	N
35-44 Average full-quarter job creation rate for Male and age	FJCR_A1A06	01612	4	N
45-54 Average full-quarter job creation rate for Male and age	FJCR_A1A07	01624	4	N
55-64 Average full-quarter job creation rate for Male and age	FJCR_A1A08	01636	4	N
65-99 Average full-quarter job destruction rate for Female	FJDR_A2A01	01772	4	N
and age 14-18 Average full-quarter job destruction rate for Female	FJDR_A2A00	01760	4	N
and age 14-99 Average full-quarter job destruction rate for Female	FJDR_A2A02	01784	4	N
and age 19-21 Average full-quarter job destruction rate for Female	FJDR_A2A03	01794		N
and age 22-24			4	
Average full-quarter job destruction rate for Female and age 25-34	FJDR_A2A04	01808	4	N
Average full-quarter job destruction rate for Female and age 35-44	FJDR_A2A05	01820	4	N
Average full-quarter job destruction rate for Female and age 45-54	FJDR_A2A06	01832	4	N
Average full-quarter job destruction rate for Female and age 55-64	FJDR_A2A07	01844	4	N
Average full-quarter job destruction rate for Female and age 65-99	FJDR_A2A08	01856	4	N
Average full-quarter job destruction rate for Male and Female and age 14-18	FJDR_A0A01	01764	4	N
Average full-quarter job destruction rate for Male and Female and age 14-99	FJDR_A0A00	01752	4	N
Average full-quarter job destruction rate for Male and Female and age 19-21	FJDR_A0A02	01776	4	N

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Field name				<u>, </u>
Field name	Data dictionary	Starting	Field	Data
Avenage full quanter ich destruction note for Male and	reference name FJDR_A0A03	position	size	type
Average full-quarter job destruction rate for Male and Female and age 22-24	FJDR_AUAU3	01788	4	IN
Average full-quarter job destruction rate for Male and	FJDR_A0A04	01800	4	N
Female and age 25-34	I JDIL_AUAU4	01000	4	11
Average full-quarter job destruction rate for Male and	$FJDR_A0A05$	01812	4	N
Female and age 35-44				
Average full-quarter job destruction rate for Male and	$FJDR_A0A06$	01824	4	N
Female and age 45-54				
Average full-quarter job destruction rate for Male and	$FJDR_A0A07$	01836	4	N
Female and age 55-64				
Average full-quarter job destruction rate for Male and	FJDR_A0A08	01848	4	N
Female and age 65-99	DIDD A1 A01	01500	4	NT.
Average full-quarter job destruction rate for Male and	FJDR_A1A01	01768	4	N
age 14-18 Average full-quarter job destruction rate for Male and	FJDR_A1A00	01756	4	N
age 14-99	FJDR_ATA00	01750	4	IN
Average full-quarter job destruction rate for Male and	FJDR_A1A02	01780	4	N
age 19-21	1 0 10 10 11 11 10 2	01100	1	11
Average full-quarter job destruction rate for Male and	FJDR_A1A03	01792	4	N
age 22-24				
Average full-quarter job destruction rate for Male and	FJDR_A1A04	01804	4	N
age 25-34				
Average full-quarter job destruction rate for Male and	$FJDR_A1A05$	01816	4	N
age 35-44				
Average full-quarter job destruction rate for Male and	FJDR_A1A06	01828	4	N
age 45-54		0.1.0.1.0		
Average full-quarter job destruction rate for Male and	FJDR_A1A07	01840	4	N
age 55-64	EIDD A1A00	01050	4	NT
Average full-quarter job destruction rate for Male and age 65-99	FJDR_A1A08	01852	4	N
Average job creation rate for Female and age 14-18	JCR_A2A01	00800	4	N
Average job creation rate for Female and age 14-99	JCR_A2A00	00788	4	N
Average job creation rate for Female and age 19-21	JCR_A2A02	00812	4	N
Average job creation rate for Female and age 22-24	JCR_A2A03	00824	4	N
Average job creation rate for Female and age 25-34	JCR_A2A04	00824	4	N
- ·				
Average job creation rate for Female and age 35-44	JCR_A2A05	00848	4	N
Average job creation rate for Female and age 45-54	JCR_A2A06	00860	4	N
Average job creation rate for Female and age 55-64	JCR_A2A07	00872	4	N
Average job creation rate for Female and age 65-99	JCR_A2A08	00884	4	N
Average job creation rate for Male and Female and age	JCR_A0A01	00792	4	N
14-18				
Average job creation rate for Male and Female and age 14-99	JCR_A0A00	00780	4	N
Average job creation rate for Male and Female and age $19-21$	JCR_A0A02	00804	4	N
Average job creation rate for Male and Female and age	JCR_A0A03	00816	4	N
22-24 Average job creation rate for Male and Female and age	JCR_A0A04	00828	4	N
25-34				

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 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Average job creation rate for Male and Female and age 35-44	JCR_A0A05	00840	4	N
Average job creation rate for Male and Female and age 45-54	JCR_A0A06	00852	4	N
Average job creation rate for Male and Female and age 55-64	JCR_A0A07	00864	4	N
Average job creation rate for Male and Female and age 65-99	JCR_A0A08	00876	4	N
Average job creation rate for Male and age 14-18	JCR_A1A01	00796	4	N
Average job creation rate for Male and age 14-99	JCR_A1A00	00784	4	N
Average job creation rate for Male and age 19-21	JCR_A1A02	00808	4	N
Average job creation rate for Male and age 22-24	JCR_A1A03	00820	4	N
Average job creation rate for Male and age 25-34	JCR_A1A04	00832	4	N
Average job creation rate for Male and age 35-44	JCR_A1A05	00844	4	N
Average job creation rate for Male and age 45-54	JCR_A1A06	00856	4	N
Average job creation rate for Male and age 55-64	JCR_A1A07	00868	4	N
Average job creation rate for Male and age 65-99	JCR_A1A08	00880	$\overline{4}$	N
Average job destruction rate for Female and age 14-18	JDR_A2A01	01016	4	N
Average job destruction rate for Female and age 14-99	JDR_A2A00	01004	4	N
Average job destruction rate for Female and age 19-21	JDR_A2A02	01028	4	N
Average job destruction rate for Female and age 22-24	JDR_A2A03	01040	4	N
Average job destruction rate for Female and age 25-34	JDR_A2A04	01052	4	N
Average job destruction rate for Female and age 35-44	JDR_A2A05	01064	4	N
Average job destruction rate for Female and age 45-54	JDR_A2A06	01076	4	N
Average job destruction rate for Female and age 55-64	JDR_A2A07	01088	4	N
Average job destruction rate for Female and age 65-99	JDR_A2A08	01100	4	N
Average job destruction rate for Male and Female and	JDR_A0A01	01008	4	N
age 14-18 Average job destruction rate for Male and Female and	JDR_A0A00	00996	4	N
age 14-99 Average job destruction rate for Male and Female and	JDR_A0A02	01020	4	N
age 19-21				
Average job destruction rate for Male and Female and age 22-24	JDR_A0A03	01032	4	N
Average job destruction rate for Male and Female and age 25-34	JDR_A0A04	01044	4	N
Average job destruction rate for Male and Female and age 35-44	JDR_A0A05	01056	4	N
Average job destruction rate for Male and Female and age 45-54	JDR_A0A06	01068	4	N

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Field name	_		Field	Data
Field name	Data dictionary reference name	Starting position	size	type
Average job destruction rate for Male and Female and	JDR_A0A07	01080	4	N
age 55-64	3D10_1101101	01000	-	11
Average job destruction rate for Male and Female and	JDR_A0A08	01092	4	N
age 65-99	02102101100	01002	-	
Average job destruction rate for Male and age 14-18	JDR_A1A01	01012	4	N
Average job destruction rate for Male and age 14-99	JDR_A1A00	01000	$\overline{4}$	N
Average job destruction rate for Male and age 19-21	JDR_A1A02	01024	4	N
Average job destruction rate for Male and age 22-24	JDR_A1A03	01036	4	N
Average job destruction rate for Male and age 25-34	JDR_A1A04	01048	4	N
Average job destruction rate for Male and age 35-44	JDR_A1A05	01060	4	N
Average job destruction rate for Male and age 45-54	JDR_A1A06	01072	4	N
Average job destruction rate for Male and age 55-64	JDR_A1A07	01084	4	N
Average job destruction rate for Male and age 65-99	JDR_A1A08	01096	4	N
Average rate of flow into full-quarter employment for	FAR_A2A01	02744	4	N
Female and age 14-18				
Average rate of flow into full-quarter employment for	FAR_A2A00	02732	4	N
Female and age 14-99				
Average rate of flow into full-quarter employment for	FAR_A2A02	02756	4	N
Female and age 19-21				
Average rate of flow into full-quarter employment for	FAR_A2A03	02768	4	N
Female and age 22-24				
Average rate of flow into full-quarter employment for	FAR_A2A04	02780	4	N
Female and age 25-34				
Average rate of flow into full-quarter employment for	FAR_A2A05	02792	4	N
Female and age 35-44				
Average rate of flow into full-quarter employment for	FAR_A2A06	02804	4	N
Female and age 45-54				
Average rate of flow into full-quarter employment for	FAR_A2A07	02816	4	N
Female and age 55-64				
Average rate of flow into full-quarter employment for	FAR_A2A08	02828	4	N
Female and age 65-99				
Average rate of flow into full-quarter employment for	FAR_A0A01	02736	4	N
Male and Female and age 14				
Average rate of flow into full-quarter employment for	FAR_A0A00	02724	4	N
Male and Female and age 14				
Average rate of flow into full-quarter employment for	FAR_A0A02	02748	4	N
Male and Female and age 19				
Average rate of flow into full-quarter employment for	FAR_A0A03	02760	4	N
Male and Female and age 22				
Average rate of flow into full-quarter employment for	FAR_A0A04	02772	4	N
Male and Female and age 25				
Average rate of flow into full-quarter employment for	FARA0A05	02784	4	N
Male and Female and age 35				
Average rate of flow into full-quarter employment for	FAR_A0A06	02796	4	N
Male and Female and age 45				
Average rate of flow into full-quarter employment for	FAR_A0A07	02808	4	N
Male and Female and age 55	TIP 10155			
Average rate of flow into full-quarter employment for	FAR_A0A08	02820	4	N
Male and Female and age 65				

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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Average rate of flow into full-quarter employment for	FAR_A1A01	02740	4	N
Male and age 14-18	EAD 41400	00700		3.7
Average rate of flow into full-quarter employment for	FAR_A1A00	02728	4	N
Male and age 14-99	EAD A1A00	00750	4	N.T.
Average rate of flow into full-quarter employment for	FAR_A1A02	02752	4	N
Male and age 19-21 Average rate of flow into full-quarter employment for	FAR_A1A03	02764	4	N
Male and age 22-24	ran_ataus	02704	4	11
Average rate of flow into full-quarter employment for	FAR_A1A04	02776	4	N
Male and age 25-34	17110_7117104	02110	-1	11
Average rate of flow into full-quarter employment for	FAR_A1A05	02788	4	N
Male and age 35-44	11110-1111100	02.00	-	- 1
Average rate of flow into full-quarter employment for	FAR_A1A06	02800	4	N
Male and age 45-54				
Average rate of flow into full-quarter employment for	FAR_A1A07	02812	4	N
Male and age 55-64				
Average rate of flow into full-quarter employment for	FAR_A1A08	02824	4	N
Male and age 65-99				
Average rate of flow out of full-quarter employment	FSR_A2A01	02960	4	N
for Female and age 14-18				
Average rate of flow out of full-quarter employment	FSR_A2A00	02948	4	N
for Female and age 14-99				
Average rate of flow out of full-quarter employment	FSR_A2A02	02972	4	N
for Female and age 19-21				
Average rate of flow out of full-quarter employment	FSR_A2A03	02984	4	N
for Female and age 22-24	ECD ADADA	00000	4	NT.
Average rate of flow out of full-quarter employment	FSR_A2A04	02996	4	N
for Female and age 25-34 Average rate of flow out of full-quarter employment	FSR_A2A05	03008	4	N
for Female and age 35-44	r Sn_A2A00	03006	4	11
Average rate of flow out of full-quarter employment	FSR_A2A06	03020	4	N
for Female and age 45-54	1 010_1121100	03020	4	11
Average rate of flow out of full-quarter employment	FSR_A2A07	03032	4	N
for Female and age 55-64	1 010-1121101	09092	1	11
Average rate of flow out of full-quarter employment	FSR_A2A08	03044	4	N
for Female and age 65-99				
Average rate of flow out of full-quarter employment	FSR_A0A01	02952	4	N
for Male and Female and age				
Average rate of flow out of full-quarter employment	FSR_A0A00	02940	4	N
for Male and Female and age				
Average rate of flow out of full-quarter employment	FSR_A0A02	02964	4	N
for Male and Female and age				
Average rate of flow out of full-quarter employment	FSR_A0A03	02976	4	N
for Male and Female and age				
Average rate of flow out of full-quarter employment	FSR_A0A04	02988	4	N
for Male and Female and age		_		_
Average rate of flow out of full-quarter employment	FSR_A0A05	03000	4	N
for Male and Female and age	EGD AGAGG			. -
Average rate of flow out of full-quarter employment	FSR_A0A06	03012	4	N
for Male and Female and age				

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Field name				,
Field name	Data dictionary reference name	Starting position	Field size	Data
Average rate of flow out of full-quarter employment	FSR_A0A07	03024	4	type
for Male and Female and age	I DIC_AUAUT	03024	4	11
Average rate of flow out of full-quarter employment	FSR_A0A08	03036	4	N
for Male and Female and age	r bit_AtAto	03030	4	11
Average rate of flow out of full-quarter employment	FSR_A1A01	02956	4	N
for Male and age 14-18	r Sit_AlA01	02930	4	11
Average rate of flow out of full-quarter employment	FSR_A1A00	02944	4	N
for Male and age 14-99	1510-2117100	02344	4	11
Average rate of flow out of full-quarter employment	FSR_A1A02	02968	4	N
for Male and age 19-21	1 516_1111102	02000	1	11
Average rate of flow out of full-quarter employment	FSR_A1A03	02980	4	N
for Male and age 22-24		02000	1	11
Average rate of flow out of full-quarter employment	FSR_A1A04	02992	4	N
for Male and age 25-34	1510-111104	02332	-	11
Average rate of flow out of full-quarter employment	FSR_A1A05	03004	4	N
for Male and age 35-44	1510-111100	03004	4	11
Average rate of flow out of full-quarter employment	FSR_A1A06	03016	4	N
for Male and age 45-54	r Sit_AlA00	03010	4	11
Average rate of flow out of full-quarter employment	FSR_A1A07	03028	4	N
for Male and age 55-64		03020	4	11
Average rate of flow out of full-quarter employment	FSR_A1A08	03040	4	N
for Male and age 65-99	1510_111100	03040	4	11
Average separation rate for Female and age 14-18	SR_A2A01	02204	4	N
Average separation rate for Female and age 14-16 Average separation rate for Female and age 14-19	SR_A2A01	02192	4	N
Average separation rate for Female and age 19-21	SR_A2A02	02132	4	N
Average separation rate for Female and age 22-24	SR_A2A03	02210	4	N
Average separation rate for Female and age 25-34	SR_A2A04	02240	4	N
Average separation rate for Female and age 35-44	SR_A2A05	02240 02252	4	N
Average separation rate for Female and age 45-54	SR_A2A06	02264	4	N
Average separation rate for Female and age 55-64	SR_A2A07	02276	4	N
Average separation rate for Female and age 65-99	SR_A2A08	02288	4	N
Average separation rate for Male and Female and age	SR_A0A01	02196	4	N
14-18	516_7107101	02130	-	11
Average separation rate for Male and Female and age	SR_A0A00	02184	4	N
14-99	510_1101100	02101	1	11
Average separation rate for Male and Female and age	SR_A0A02	02208	4	N
19-21	5102107102	02200	-	11
Average separation rate for Male and Female and age	SR_A0A03	02220	4	N
22-24	510_7107100	02220	-	11
Average separation rate for Male and Female and age	SR_A0A04	02232	4	N
25-34	516_7107104	02232	4	11
Average separation rate for Male and Female and age	SRA0A05	02244	4	N
35-44	510-7107100	02244	4	11
Average separation rate for Male and Female and age	SR_A0A06	02256	4	N
45-54	516_7107100	02290	-	11
Average separation rate for Male and Female and age	SR_A0A07	02268	4	N
55-64	DICTIONOL	02200	4	1.1
Average separation rate for Male and Female and age	SR_A0A08	02280	4	N
65-99	D1(_/1U/1U0	02200	4	1.4
Average separation rate for Male and age 14-18	SR_A1A01	02200	4	N
11101650 separation rate for mate and age 14-10	D10=11111U1	02200	4	1.4

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CHAITER 7. QUARTERET WORKFORCE INDICA.	,	- /		
Field name	Data dictionary	Starting	Field	Data
A 14 00	reference name SR_A1A00	position	size	type
Average separation rate for Male and age 14-99		02188	4	N
Average separation rate for Male and age 19-21	SR_A1A02	02212	4	N
Average separation rate for Male and age 22-24	SR_A1A03	02224	4	N
Average separation rate for Male and age 25-34	SR_A1A04	02236	4	N
Average separation rate for Male and age 35-44	SR_A1A05	02248	4	N
Average separation rate for Male and age 45-54	SR_A1A06	02260	4	N
Average separation rate for Male and age 55-64	SR_A1A07	02272	4	N
Average separation rate for Male and age 65-99	SR_A1A08	02284	4	N
Beginning-of-period employment for Female and age 14-18	B_A2A01	00044	4	N
Beginning-of-period employment for Female and age 14-99	B_A2A00	00032	4	N
Beginning-of-period employment for Female and age 19-21	B_A2A02	00056	4	N
Beginning-of-period employment for Female and age 22-24	B_A2A03	00068	4	N
Beginning-of-period employment for Female and age 25-34	B_A2A04	00080	4	N
Beginning-of-period employment for Female and age 35-44	B_A2A05	00092	4	N
Beginning-of-period employment for Female and age	B_A2A06	00104	4	N
45-54 Beginning-of-period employment for Female and age	B_A2A07	00116	4	N
55-64 Beginning-of-period employment for Female and age	B_A2A08	00128	4	N
65-99 Beginning-of-period employment for Male and Female	B_A0A01	00036	4	N
and age 14-18 Beginning-of-period employment for Male and Female	B_A0A00	00024	4	N
and age 14-99 Beginning-of-period employment for Male and Female	B_A0A02	00048	4	N
and age 19-21 Beginning-of-period employment for Male and Female	B_A0A03	00060	4	N
and age 22-24 Beginning-of-period employment for Male and Female	B_A0A04	00072	4	N
and age 25-34 Beginning-of-period employment for Male and Female	B_A0A05	00084	4	N
and age 35-44				
Beginning-of-period employment for Male and Female and age 45-54	B_A0A06	00096	4	N
Beginning-of-period employment for Male and Female and age 55-64	B_A0A07	00108	4	N
Beginning-of-period employment for Male and Female and age 65-99	B_A0A08	00120	4	N
Beginning-of-period employment for Male and age 14-18	B_A1A01	00040	4	N
Beginning-of-period employment for Male and age 14-99	B_A1A00	00028	4	N
Beginning-of-period employment for Male and age 19-21	B_A1A02	00052	4	N

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Field name	Data dictionary	Starting	Field	Data
rieid name	reference name	position	size	type
Beginning-of-period employment for Male and age 22-	B_A1A03	00064	4	N
24				
Beginning-of-period employment for Male and age 25-34	B_A1A04	00076	4	N
Beginning-of-period employment for Male and age 35-	B_A1A05	00088	4	N
Beginning-of-period employment for Male and age 45-	B_A1A06	00100	4	N
54 Beginning-of-period employment for Male and age 55-	B_A1A07	00112	4	N
64 Beginning-of-period employment for Male and age 65-	B_A1A08	00124	4	N
99 Change in total earnings for accessions for Female and	DWA_A2A01	03824	4	N
age 14-18 Change in total earnings for accessions for Female and	DWA_A2A00	03812	4	N
age 14-99 Change in total earnings for accessions for Female and	DWA_A2A02	03836	4	N
age 19-21 Change in total earnings for accessions for Female and	DWA_A2A03	03848	4	N
age 22-24 Change in total earnings for accessions for Female and	DWA_A2A04	03860	4	N
age 25-34 Change in total earnings for accessions for Female and	DWA_A2A05	03872	4	N
age 35-44 Change in total earnings for accessions for Female and	DWA_A2A06	03884	4	N
age 45-54 Change in total earnings for accessions for Female and	DWA_A2A07	03896	4	N
age 55-64 Change in total earnings for accessions for Female and	DWA_A2A08	03908	4	N
age 65-99 Change in total earnings for accessions for Male and	DWA_A0A01	03816	4	N
Female and age 14-18 Change in total earnings for accessions for Male and	DWA_A0A00	03804	4	N
Female and age 14-99 Change in total earnings for accessions for Male and	DWA_A0A02	03828	4	N
Female and age 19-21 Change in total earnings for accessions for Male and	DWA_A0A03	03840	4	N
Female and age 22-24				
Change in total earnings for accessions for Male and Female and age 25-34	DWA_A0A04	03852	4	N
Change in total earnings for accessions for Male and Female and age 35-44	DWA_A0A05	03864	4	N
Change in total earnings for accessions for Male and Female and age 45-54	DWA_A0A06	03876	4	N
Change in total earnings for accessions for Male and Female and age 55-64	DWA_A0A07	03888	4	N
Change in total earnings for accessions for Male and Female and age 65-99	DWA_A0A08	03900	4	N
Change in total earnings for accessions for Male and age 14-18	DWA_A1A01	03820	4	N

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CHAITER 7. QUARTERET WORKFORCE INDICA.		· - /	D: 11	D /
Field name	Data dictionary reference name	Starting position	Field size	Data type
Change in total earnings for accessions for Male and	DWA_A1A00	03808	4	N
age 14-99	DWILITIIOO	03000	4	11
Change in total earnings for accessions for Male and	DWA_A1A02	03832	4	N
age 19-21	_ ,, <u>_</u>	3333_		
Change in total earnings for accessions for Male and	DWA_A1A03	03844	4	N
age 22-24				
Change in total earnings for accessions for Male and	DWA_A1A04	03856	4	N
age $25-34$				
Change in total earnings for accessions for Male and	DWA_A1A05	03868	4	N
age 35-44				
Change in total earnings for accessions for Male and	DWA_A1A06	03880	4	N
age 45-54				
Change in total earnings for accessions for Male and	DWA_A1A07	03892	4	N
age 55-64	****			
Change in total earnings for accessions for Male and	DWA_A1A08	03904	4	N
age 65-99	THEO ADAD1	0.400.4		3. T
Change in total earnings for full-quarter separations	$DWFS_A2A01$	04904	4	N
for Female and age 14-18	DWEC ADAGO	04892	4	N
Change in total earnings for full-quarter separations for Female and age 14-99	DWFS_A2A00	04892	4	N
Change in total earnings for full-quarter separations	DWFS_A2A02	04916	4	N
for Female and age 19-21	DWF D_AZA0Z	04310	4	11
Change in total earnings for full-quarter separations	DWFS_A2A03	04928	4	N
for Female and age 22-24	DW1 02121100	01020		1,
Change in total earnings for full-quarter separations	$DWFS_A2A04$	04940	4	N
for Female and age 25-34	_ ,, _ ,, , , ,	0 -0 -0	_	
Change in total earnings for full-quarter separations	$DWFS_A2A05$	04952	4	N
for Female and age 35-44				
Change in total earnings for full-quarter separations	$DWFS_A2A06$	04964	4	N
for Female and age 45-54				
Change in total earnings for full-quarter separations	$DWFS_A2A07$	04976	4	N
for Female and age 55-64				
Change in total earnings for full-quarter separations	$DWFS_A2A08$	04988	4	N
for Female and age 65-99				
Change in total earnings for full-quarter separations	DWFS_A0A01	04896	4	N
for Male and Female and ag	TITE A A A A A	0.400.4	4	3.7
Change in total earnings for full-quarter separations	DWFS_A0A00	04884	4	N
for Male and Female and ag	- IUDO A 0 A 0 0	0.4000	4	N.T.
Change in total earnings for full-quarter separations	DWFS_A0A02	04908	4	N
for Male and Female and ag Change in total earnings for full-quarter separations	DWFS_A0A03	04920	4	N
for Male and Female and ag	DWFS_AUAU3	04920	4	IN
Change in total earnings for full-quarter separations	DWFS_A0A04	04932	4	N
for Male and Female and ag	D W1 02101104	04302	-	11
Change in total earnings for full-quarter separations	DWFS_A0A05	04944	4	N
for Male and Female and ag	2 ,, 1 , 2 2 1 0 1 1 0 0	01011	-	- 1
Change in total earnings for full-quarter separations	DWFS_A0A06	04956	4	N
for Male and Female and ag				
Change in total earnings for full-quarter separations	$DWFS_A0A07$	04968	4	N
for Male and Female and ag				

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Field name		Starting	Field	Data
Field name	Data dictionary reference name	position	size	type
Change in total earnings for full-quarter separations	DWFS_A0A08	04980	4	N
for Male and Female and ag	DWF5_1101100	04300	4	11
Change in total earnings for full-quarter separations	DWFS_A1A01	04900	4	N
for Male and age 14-18	D W1 02111101	01000	1	11
Change in total earnings for full-quarter separations	DWFS_A1A00	04888	4	N
for Male and age 14-99	D 111 D 21111100	01000	1	11
Change in total earnings for full-quarter separations	DWFS_A1A02	04912	4	N
for Male and age 19-21	_ ,, _ ,, _ ,, , _ , _ , _ , _ , _	0 -0	_	
Change in total earnings for full-quarter separations	DWFS_A1A03	04924	4	N
for Male and age 22-24				
Change in total earnings for full-quarter separations	DWFS_A1A04	04936	4	N
for Male and age 25-34				
Change in total earnings for full-quarter separations	DWFS_A1A05	04948	4	N
for Male and age 35-44				
Change in total earnings for full-quarter separations	DWFS_A1A06	04960	4	N
for Male and age 45-54				
Change in total earnings for full-quarter separations	$DWFS_A1A07$	04972	4	N
for Male and age 55-64				
Change in total earnings for full-quarter separations	DWFS_A1A08	04984	4	N
for Male and age 65-99				
Change in total earnings for separations for Female	DWS_A2A01	04688	4	N
and age 14-18				
Change in total earnings for separations for Female	DWS_A2A00	04676	4	N
and age 14-99				
Change in total earnings for separations for Female	DWS_A2A02	04700	4	N
and age 19-21				
Change in total earnings for separations for Female	DWS_A2A03	04712	4	N
and age 22-24				
Change in total earnings for separations for Female	DWS_A2A04	04724	4	N
and age 25-34				
Change in total earnings for separations for Female	DWS_A2A05	04736	4	N
and age 35-44				
Change in total earnings for separations for Female	DWS_A2A06	04748	4	N
and age $45-54$				
Change in total earnings for separations for Female	DWS_A2A07	04760	4	N
and age 55-64				
Change in total earnings for separations for Female	DWS_A2A08	04772	4	N
and age 65-99				
Change in total earnings for separations for Male and	DWS_A0A01	04680	4	N
Female and age 14-18				
Change in total earnings for separations for Male and	DWS_A0A00	04668	4	N
Female and age 14-99				
Change in total earnings for separations for Male and	DWS_A0A02	04692	4	N
Female and age 19-21				
Change in total earnings for separations for Male and	DWS_A0A03	04704	4	N
Female and age 22-24				
Change in total earnings for separations for Male and	DWS_A0A04	04716	4	N
Female and age 25-34	TTT0 4 0 4 0 7	a .=a -	ž.	• •
Change in total earnings for separations for Male and	DWS_A0A05	04728	4	N
Female and age 35-44				

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Field name	Data dictionary	Starting	Field	Data
rield hame	reference name	position	size	type
Change in total earnings for separations for Male and	DWS_A0A06	04740	4	N
Female and age 45-54				
Change in total earnings for separations for Male and	DWS_A0A07	04752	4	N
Female and age 55-64				
Change in total earnings for separations for Male and	DWS_A0A08	04764	4	N
Female and age 65-99				
Change in total earnings for separations for Male and	DWS_A1A01	04684	4	N
age 14-18				
Change in total earnings for separations for Male and	DWS_A1A00	04672	4	N
age 14-99				
Change in total earnings for separations for Male and	DWS_A1A02	04696	4	N
age 19-21				
Change in total earnings for separations for Male and	DWS_A1A03	04708	4	N
age 22-24				
Change in total earnings for separations for Male and	DWS_A1A04	04720	4	N
age 25-34				
Change in total earnings for separations for Male and	DWS_A1A05	04732	4	N
age 35-44				
Change in total earnings for separations for Male and	DWS_A1A06	04744	4	N
age 45-54	TTTG . 4 . 4 . 5 . 5			
Change in total earnings for separations for Male and	DWS_A1A07	04756	4	N
age 55-64	TTTG . 4 . 4 . 0 . 0	0.4-00		
Change in total earnings for separations for Male and	DWS_A1A08	04768	4	N
age 65-99	THE AGAIN	0.41.40	4	3.7
Change in total earnings for transits to full-quarter	$DWFA_A2A01$	04148	4	N
status for Female and age		0.419.6	4	TN T
Change in total earnings for transits to full-quarter	$DWFA_A2A00$	04136	4	N
status for Female and age	$DWFA_A2A02$	04160	4	N
Change in total earnings for transits to full-quarter status for Female and age	DWFA_A2A02	04100	4	11
Change in total earnings for transits to full-quarter	DWFA_A2A03	04172	4	N
status for Female and age	DWFALAZA05	04172	4	11
Change in total earnings for transits to full-quarter	DWFA_A2A04	04184	4	N
status for Female and age	D W F11_1121104	04104	4	11
Change in total earnings for transits to full-quarter	DWFA_A2A05	04196	4	N
status for Female and age	D (11121121100	01100	1	11
Change in total earnings for transits to full-quarter	DWFA_A2A06	04208	4	N
status for Female and age	5 (, 111 <u>-11</u> 1100	01200	-	
Change in total earnings for transits to full-quarter	$DWFA_A2A07$	04220	4	N
status for Female and age				
Change in total earnings for transits to full-quarter	$DWFA_A2A08$	04232	4	N
status for Female and age				
Change in total earnings for transits to full-quarter	DWFA_A0A01	04140	4	N
status for Male and Female				
Change in total earnings for transits to full-quarter	$DWFA_A0A00$	04128	4	N
status for Male and Female				
Change in total earnings for transits to full-quarter	$DWFA_A0A02$	04152	4	N
status for Male and Female				
Change in total earnings for transits to full-quarter	DWFA_A0A03	04164	4	N
status for Male and Female				

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Change in total earnings for transits to full-quarter	DWFA_A0A04	04176	4	N
status for Male and Female		0.41.00	4	3.7
Change in total earnings for transits to full-quarter	DWFA_A0A05	04188	4	N
status for Male and Female				
Change in total earnings for transits to full-quarter	DWFA_A0A06	04200	4	N
status for Male and Female		0.404.0		
Change in total earnings for transits to full-quarter	DWFA_A0A07	04212	4	N
status for Male and Female				
Change in total earnings for transits to full-quarter	DWFA_A0A08	04224	4	N
status for Male and Female				
Change in total earnings for transits to full-quarter	DWFA_A1A01	04144	4	N
status for Male and age 14				
Change in total earnings for transits to full-quarter	DWFA_A1A00	04132	4	N
status for Male and age 14				
Change in total earnings for transits to full-quarter	DWFA_A1A02	04156	4	N
status for Male and age 19				
Change in total earnings for transits to full-quarter	DWFA_A1A03	04168	4	N
status for Male and age 22				
Change in total earnings for transits to full-quarter	DWFA_A1A04	04180	4	N
status for Male and age 25				
Change in total earnings for transits to full-quarter	$DWFA_A1A05$	04192	4	N
status for Male and age 35				
Change in total earnings for transits to full-quarter	$DWFA_A1A06$	04204	4	N
status for Male and age 45				
Change in total earnings for transits to full-quarter	$DWFA_A1A07$	04216	4	N
status for Male and age 55				
Change in total earnings for transits to full-quarter	DWFA_A1A08	04228	4	N
status for Male and age 65				
Cleaned GEO FIPS County CCC	LEG_COUNTY	07498	3	A/N
Cleaned OWNER_CODE O	ES_OWNER_CODE	07493	1	A/N
Cleaned SIC Code IIII	ES_SIC	07494	4	A/N
ES202 FIPS State SS	ES_STATE	07526	2	A/N
Employment any time during the period for Female	M_A2A01	00260	4	N
and age 14-18				
Employment any time during the period for Female	M_A2A00	00248	4	N
and age 14-99				
Employment any time during the period for Female	M_A2A02	00272	4	N
and age 19-21				
Employment any time during the period for Female	M_A2A03	00284	4	N
and age 22-24				
Employment any time during the period for Female	M_A2A04	00296	4	N
and age 25-34				
Employment any time during the period for Female	M_A2A05	00308	4	N
and age 35-44				
Employment any time during the period for Female	M_A2A06	00320	4	N
and age 45-54				
Employment any time during the period for Female	M_A2A07	00332	4	N
and age 55-64				
Employment any time during the period for Female	M_A2A08	00344	4	N
and age 65-99				
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Eight cons		· - /	Field	D-4-
Field name	Data dictionary reference name	Starting position	size	Data type
Employment any time during the period for Male and	M_A0A01	00252	4	N
Female and age 14-18	WI_NONOT	00202	4	11
Employment any time during the period for Male and	M_A0A00	00240	4	N
Female and age 14-99	W1_1101100	00240	-	11
Employment any time during the period for Male and	M_A0A02	00264	4	N
Female and age 19-21	1111101102	00201	-	1,
Employment any time during the period for Male and	M_A0A03	00276	4	N
Female and age 22-24		002.0	_	
Employment any time during the period for Male and	M_A0A04	00288	4	N
Female and age 25-34				
Employment any time during the period for Male and	M_A0A05	00300	4	N
Female and age 35-44				
Employment any time during the period for Male and	M_A0A06	00312	$_4$	N
Female and age 45-54				
Employment any time during the period for Male and	M_A0A07	00324	4	N
Female and age 55-64				
Employment any time during the period for Male and	M_A0A08	00336	4	N
Female and age 65-99				
Employment any time during the period for Male and	M_A1A01	00256	4	\mathbf{N}
age 14-18				
Employment any time during the period for Male and	M_A1A00	00244	4	N
age 14-99				
Employment any time during the period for Male and	M_A1A02	00268	4	N
age 19-21				
Employment any time during the period for Male and	M_A1A03	00280	4	N
age 22-24	35.44404			
Employment any time during the period for Male and	M_A1A04	00292	4	N
age 25-34	N.F. A.1.A.O.F.	00004	4	N.T
Employment any time during the period for Male and	M_A1A05	00304	4	N
age 35-44	M A1A0C	00216	4	N.T.
Employment any time during the period for Male and	M_A1A06	00316	4	N
age 45-54 Employment any time during the period for Male and	M_A1A07	00328	4	N
age 55-64	WI_ATAU	00328	4	IN
Employment any time during the period for Male and	M_A1A08	00340	4	N
age 65-99	WLAIAU0	00540	4	11
End-of-period employment for Female and age 14-18	E_A2A01	00152	4	N
End-of-period employment for Female and age 14-19 End-of-period employment for Female and age 14-99	E_A2A00	00132	4	N
End-of-period employment for Female and age 19-21	E_A2A02	00140	4	N
End-of-period employment for Female and age 22-24	E_A2A03	00176	4	N
End-of-period employment for Female and age 25-34	E_A2A04	00188	4	N
End-of-period employment for Female and age 35-44	E_A2A05	00200	4	N
End-of-period employment for Female and age 45-54	E_A2A06	00212	4	N
End-of-period employment for Female and age 55-64	E_A2A07	00224	$\overline{4}$	N
End-of-period employment for Female and age 65-99	E_A2A08	00236	4	N
End-of-period employment for Male and Female and	E_A0A01	00144	4	N
age 14-18				
End-of-period employment for Male and Female and	E_A0A00	00132	4	N
age 14-99				

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		Ctantin		<u> </u>
Field name	Data dictionary reference name	Starting position	Field size	Data
End-of-period employment for Male and Female and		_		type
age 19-21	E_A0A02	00156	4	N
End-of-period employment for Male and Female and	E_A0A03	00168	4	N
age $22-24$				
End-of-period employment for Male and Female and	E_A0A04	00180	4	N
age 25-34				
End-of-period employment for Male and Female and	E_A0A05	00192	4	N
age 35-44	T 40400	00004	4	ът.
End-of-period employment for Male and Female and	E_A0A06	00204	4	N
age 45-54	E_A0A07	00216	4	N
End-of-period employment for Male and Female and age 55-64	E_AUAU1	00210	4	IN
End-of-period employment for Male and Female and	E_A0A08	00228	4	N
age 65-99	22101100	00220	-	11
End-of-period employment for Male and age 14-18	E_A1A01	00148	4	N
End-of-period employment for Male and age 14-99	E_A1A00	00136	4	N
End-of-period employment for Male and age 19-21	E_A1A02	00160	4	N
End-of-period employment for Male and age 22-24	E_A1A03	00172	4	N
End-of-period employment for Male and age 25-34	E_A1A04	00184	4	N
End-of-period employment for Male and age 35-44	E_A1A05	00196	4	N
End-of-period employment for Male and age 45-54	E_A1A06	00208	4	N
End-of-period employment for Male and age 55-64	E_A1A07	00220	4	N
End-of-period employment for Male and age 65-99	E_A1A08	00232	4	N
Final 2002 NAICS Code NNNNNN	ES_NAICS_FNL2002	07528	6	A/N
Flow into consecutive quarter employment for Female	CA_A2A01	03068	4	N
and age 14-18 Flow into consecutive quarter employment for Female	CA_A2A00	03056	4	N
and age 14-99	CA_AZA00	03030	4	11
Flow into consecutive quarter employment for Female	CA_A2A02	03080	4	N
and age 19-21	011-1121102	00000	1	1,
Flow into consecutive quarter employment for Female	CA_A2A03	03092	4	N
and age 22-24				
Flow into consecutive quarter employment for Female	CA_A2A04	03104	4	N
and age 25-34				
Flow into consecutive quarter employment for Female	CA_A2A05	03116	4	N
and age 35-44				
Flow into consecutive quarter employment for Female	CA_A2A06	03128	4	N
and age 45-54	G4 4040 -	004.40	4	3.7
Flow into consecutive quarter employment for Female	CA_A2A07	03140	4	N
and age 55-64	CA 40400	09150	4	N.T.
Flow into consecutive quarter employment for Female and age 65-99	CA_A2A08	03152	4	N
Flow into consecutive quarter employment for Male	CA_A0A01	03060	4	N
and Female and age 14-18	07127107101	05000	4	11
Flow into consecutive quarter employment for Male	CA_A0A00	03048	4	N
and Female and age 14-99		000-0		
Flow into consecutive quarter employment for Male	CA_A0A02	03072	4	N
and Female and age 19-21				
Flow into consecutive quarter employment for Male	CA_A0A03	03084	4	N
and Female and age 22-24				

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Field name	Data dictionary	Starting	Field	Data
1 fold figure	reference name	position	size	type
Flow into consecutive quarter employment for Male	CA_A0A04	03096	4	N
and Female and age 25-34		00100		3.7
Flow into consecutive quarter employment for Male	CA_A0A05	03108	4	N
and Female and age 35-44 Flow into consecutive quarter employment for Male	CA_A0A06	03120	4	N
and Female and age 45-54	CA_A0A00	03120	4	11
Flow into consecutive quarter employment for Male	CA_A0A07	03132	4	N
and Female and age 55-64				
Flow into consecutive quarter employment for Male	CA_A0A08	03144	4	N
and Female and age 65-99				
Flow into consecutive quarter employment for Male	CA_A1A01	03064	4	N
and age 14-18 Flow into consecutive quarter employment for Male	CA_A1A00	03052	1	N
and age 14-99	CA_ATA00	03032	4	IN
Flow into consecutive quarter employment for Male	CA_A1A02	03076	4	N
and age 19-21	01121111102	00010	<u>.</u>	11
Flow into consecutive quarter employment for Male	CA_A1A03	03088	4	N
and age 22-24				
Flow into consecutive quarter employment for Male	CA_A1A04	03100	4	N
and age 25-34				
Flow into consecutive quarter employment for Male	CA_A1A05	03112	4	N
and age 35-44	CA_A1A06	03124	1	N
Flow into consecutive quarter employment for Male and age 45-54	CA_A1A00	03124	4	IN
Flow into consecutive quarter employment for Male	CA_A1A07	03136	4	N
and age 55-64		00100	<u>.</u>	11
Flow into consecutive quarter employment for Male	CA_A1A08	03148	4	N
and age 65-99				
Flow into full-quarter employment for Female and age	FA_A2A01	02636	4	N
14-18	T1 10100	00004		3.7
Flow into full-quarter employment for Female and age	FA_A2A00	02624	4	N
14-99 Flow into full-quarter employment for Female and age	FA_A2A02	02648	4	N
19-21	ra_azauz	02048	4	IN
Flow into full-quarter employment for Female and age	FA_A2A03	02660	4	N
22-24				
Flow into full-quarter employment for Female and age	FA_A2A04	02672	4	N
25-34				
Flow into full-quarter employment for Female and age	FA_A2A05	02684	4	N
35-44	EA 40400	00000	4	3.7
Flow into full-quarter employment for Female and age	FA_A2A06	02696	4	N
45-54 Flow into full-quarter employment for Female and age	FA_A2A07	02708	4	N
55-64	171_7127101	02100	4	11
Flow into full-quarter employment for Female and age	FA_A2A08	02720	4	N
65-99				
Flow into full-quarter employment for Male and Fe-	FA_A0A01	02628	4	N
male and age 14-18				
Flow into full-quarter employment for Male and Fe-	FA_A0A00	02616	4	N
male and age 14-99				

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Edd				
Field name	Data dictionary reference name	Starting position	Field size	Data
Flow into full-quarter employment for Male and Fe-	FA_A0A02	02640	size 4	type N
male and age 19-21	FA_A0A02	02040	4	11
Flow into full-quarter employment for Male and Fe-	FA_A0A03	02652	4	N
male and age 22-24	FA_A0A03	02052	4	11
Flow into full-quarter employment for Male and Fe-	FA_A0A04	02664	4	N
	FA_A0A04	02004	4	11
male and age 25-34 Flow into full-quarter employment for Male and Fe-	EA AOAOE	00676	4	NT.
1 1	FA_A0A05	02676	4	N
male and age 35-44	EA 40406	00600	4	NT.
Flow into full-quarter employment for Male and Fe-	FA_A0A06	02688	4	N
male and age 45-54	EA 40407	00700	4	NT.
Flow into full-quarter employment for Male and Fe-	FA_A0A07	02700	4	N
male and age 55-64	TA 40400	00710	4	TN T
Flow into full-quarter employment for Male and Fe-	FA_A0A08	02712	4	N
male and age 65-99	TA A1A01	00000		TN T
Flow into full-quarter employment for Male and age	FA_A1A01	02632	4	N
14-18	TA 41400	00000		N.T.
Flow into full-quarter employment for Male and age	FA_A1A00	02620	4	N
14-99	EA 41400	00011		TN T
Flow into full-quarter employment for Male and age	FA_A1A02	02644	4	N
19-21	EA 41400	00050		N.T.
Flow into full-quarter employment for Male and age	FA_A1A03	02656	4	N
22-24	T1 11101	00000		3.7
Flow into full-quarter employment for Male and age	FA_A1A04	02668	4	N
25-34	T1 1110	00000		3.7
Flow into full-quarter employment for Male and age	FA_A1A05	02680	4	N
35-44	DA 41400	00000	4	TN T
Flow into full-quarter employment for Male and age	FA_A1A06	02692	4	N
45-54	TA 4140F	00504	4	N.T.
Flow into full-quarter employment for Male and age	FA_A1A07	02704	4	N
55-64	TA 41400	00716		TN T
Flow into full-quarter employment for Male and age	FA_A1A08	02716	4	N
65-99	CC 40401	00150		N.T.
Flow out of consecutive quarter employment for Fe-	CS_A2A01	03176	4	N
male and age 14-18	CC 42400	09164	4	N.T.
Flow out of consecutive quarter employment for Fe-	CS_A2A00	03164	4	N
male and age 14-99	CC 49409	09100	4	N.T.
Flow out of consecutive quarter employment for Fe-	CS_A2A02	03188	4	N
male and age 19-21	CC 49499	02000	4	N.T.
Flow out of consecutive quarter employment for Fe-	CS_A2A03	03200	4	N
male and age 22-24	CC 42404	02010	4	NT.
Flow out of consecutive quarter employment for Fe-	CS_A2A04	03212	4	N
male and age 25-34	CC 4240F	02224	4	NT
Flow out of consecutive quarter employment for Fermals and are 25 44	CS_A2A05	03224	4	N
male and age 35-44	CC 12106	02226	4	N
Flow out of consecutive quarter employment for Female and age 45-54	CS_A2A06	03236	4	N
· ·	CS A 2 A 0.7	02040	1	NT
Flow out of consecutive quarter employment for Female and age 55-64	CS_A2A07	03248	4	N
Flow out of consecutive quarter employment for Fe-	CS_A2A08	03260	4	N
male and age 65-99	OD_A2A00	03200	4	IN
mare and age 00-33				

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CHAITER 7. QUARTERET WORKFORCE INDICA		\ - /	D: 13	T D .
Field name	Data dictionary reference name	Starting position	Field size	Data type
Flow out of consecutive quarter employment for Male	CS_A0A01	03168	4	N
and Female and age 14-18				
Flow out of consecutive quarter employment for Male	CS_A0A00	03156	4	N
and Female and age 14-99				
Flow out of consecutive quarter employment for Male	CS_A0A02	03180	4	N
and Female and age 19-21	QQ 40400	00100		3.7
Flow out of consecutive quarter employment for Male	CS_A0A03	03192	4	N
and Female and age 22-24 Flow out of consecutive quarter employment for Male	CS_A0A04	03204	4	N
and Female and age 25-34	CD_AUAU4	03204	4	11
Flow out of consecutive quarter employment for Male	CS_A0A05	03216	4	N
and Female and age 35-44	0.02.101100	00210	1	11
Flow out of consecutive quarter employment for Male	CS_A0A06	03228	4	N
and Female and age 45-54		000		
Flow out of consecutive quarter employment for Male	CS_A0A07	03240	4	N
and Female and age 55-64				
Flow out of consecutive quarter employment for Male	CS_A0A08	03252	4	N
and Female and age 65-99				
Flow out of consecutive quarter employment for Male	CS_A1A01	03172	4	N
and age 14-18				
Flow out of consecutive quarter employment for Male	CS_A1A00	03160	4	N
and age 14-99				
Flow out of consecutive quarter employment for Male	CS_A1A02	03184	4	N
and age 19-21	CC 41409	09106	4	N.T.
Flow out of consecutive quarter employment for Male and age 22-24	CS_A1A03	03196	4	N
Flow out of consecutive quarter employment for Male	CS_A1A04	03208	4	N
and age 25-34	052111104	03200	4	11
Flow out of consecutive quarter employment for Male	CS_A1A05	03220	4	N
and age 35-44		000		
Flow out of consecutive quarter employment for Male	CS_A1A06	03232	4	N
and age 45-54				
Flow out of consecutive quarter employment for Male	CS_A1A07	03244	4	N
and age 55-64				
Flow out of consecutive quarter employment for Male	CS_A1A08	03256	4	N
and age 65-99				
Flow out of full-quarter employment for Female and	FS_A2A01	02852	4	N
age 14-18	TC 40400	00040	4	N.T.
Flow out of full-quarter employment for Female and	FS_A2A00	02840	4	N
age 14-99 Flow out of full-quarter employment for Female and	FS_A2A02	02864	4	N
age 19-21	F 5_A2A02	02004	4	11
Flow out of full-quarter employment for Female and	FS_A2A03	02876	4	N
age 22-24	1 021121100	02010	1	11
Flow out of full-quarter employment for Female and	FS_A2A04	02888	4	N
age 25-34				
Flow out of full-quarter employment for Female and	FS_A2A05	02900	4	N
age 35-44				
Flow out of full-quarter employment for Female and	FS_A2A06	02912	4	N
age 45-54				

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Flow out of full-quarter employment for Female and age 55-64	FS_A2A07	02924	4	N
Flow out of full-quarter employment for Female and age 65-99	FS_A2A08	02936	4	N
Flow out of full-quarter employment for Male and Fe-	FS_A0A01	02844	4	N
male and age 14-18				
Flow out of full-quarter employment for Male and Female and age 14-99	FS_A0A00	02832	4	N
Flow out of full-quarter employment for Male and Female and age 19-21	FS_A0A02	02856	4	N
Flow out of full-quarter employment for Male and Fe-	FS_A0A03	02868	4	N
male and age 22-24 Flow out of full-quarter employment for Male and Fe-	FS_A0A04	02880	4	N
male and age 25-34	777 10107			
Flow out of full-quarter employment for Male and Female and age 35-44	FS_A0A05	02892	4	N
Flow out of full-quarter employment for Male and Female and age 45-54	FS_A0A06	02904	4	N
Flow out of full-quarter employment for Male and Female and age 55-64	FS_A0A07	02916	4	N
Flow out of full-quarter employment for Male and Fe-	FS_A0A08	02928	4	N
male and age 65-99 Flow out of full-quarter employment for Male and age	FS_A1A01	02848	4	N
14-18 Flow out of full-quarter employment for Male and age	FS_A1A00	02836	4	N
14-99				
Flow out of full-quarter employment for Male and age 19-21	FS_A1A02	02860	4	N
Flow out of full-quarter employment for Male and age 22-24	FS_A1A03	02872	4	N
Flow out of full-quarter employment for Male and age 25-34	FS_A1A04	02884	4	N
Flow out of full-quarter employment for Male and age 35-44	FS_A1A05	02896	4	N
Flow out of full-quarter employment for Male and age 45-54	FS_A1A06	02908	4	N
Flow out of full-quarter employment for Male and age	FS_A1A07	02920	4	N
55-64 Flow out of full-quarter employment for Male and age	FS_A1A08	02932	4	N
65-99				
Full-quarter employment for Female and age 14-18	F_A2A01	00368	4	N
Full-quarter employment for Female and age 14-99	F_A2A00	00356	4	N
Full-quarter employment for Female and age 19-21	F_A2A02	00380	4	N
Full-quarter employment for Female and age 22-24	F_A2A03	00392	4	N
Full-quarter employment for Female and age 25-34	F_A2A04	00404	4	N
Full-quarter employment for Female and age 35-44	F_A2A05	00416	4	N
Full-quarter employment for Female and age 45-54	F_A2A06	00428	4	N
Full-quarter employment for Female and age 55-64	F_A2A07	00440	4	N
Full-quarter employment for Female and age 65-99	F_A2A08	00452	4	N

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Full-quarter employment for Male and Female and age	F_A0A01	00360	4	N
14-18				
Full-quarter employment for Male and Female and age	F_A0A00	00348	4	N
14-99				
Full-quarter employment for Male and Female and age	F_A0A02	00372	4	N
19-21				
Full-quarter employment for Male and Female and age	F_A0A03	00384	4	N
22-24				
Full-quarter employment for Male and Female and age	F_A0A04	00396	4	N
25-34				
Full-quarter employment for Male and Female and age	F_A0A05	00408	4	N
35-44				
Full-quarter employment for Male and Female and age	F_A0A06	00420	4	N
45-54				
Full-quarter employment for Male and Female and age	F_A0A07	00432	4	N
55-64				
Full-quarter employment for Male and Female and age	F_A0A08	00444	4	N
65-99				
Full-quarter employment for Male and age 14-18	F_A1A01	00364	4	N
Full-quarter employment for Male and age 14-99	F_A1A00	00352	4	N
Full-quarter employment for Male and age 19-21	F_A1A02	00376	4	N
Full-quarter employment for Male and age 22-24	F_A1A03	00388	4	N
Full-quarter employment for Male and age 25-34	F_A1A04	00400	4	N
Full-quarter employment for Male and age 35-44	F_A1A05	00412	4	N
Full-quarter employment for Male and age 45-54	F_A1A06	00424	4	N
Full-quarter employment for Male and age 55-64	F_A1A07	00436	4	N
Full-quarter employment for Male and age 65-99	F_A1A08	00448	4	N
Full-quarter job creation for Female and age 14-18	FJC_A2A01	01448	4	N
Full-quarter job creation for Female and age 14-99	FJC_A2A00	01436	4	N
Full-quarter job creation for Female and age 19-21	FJC_A2A02	01460	4	N
Full-quarter job creation for Female and age 22-24	FJC_A2A03	01472	4	N
Full-quarter job creation for Female and age 25-34	FJC_A2A04	01484	4	N
Full-quarter job creation for Female and age 35-44	FJC_A2A05	01496	4	N
Full-quarter job creation for Female and age 45-54	FJC_A2A06	01508	4	N
Full-quarter job creation for Female and age 55-64	FJC_A2A07	01520	4	N
Full-quarter job creation for Female and age 65-99	FJC_A2A08	01532	4	N
Full-quarter job creation for Male and Female and age	FJC_A0A01	01440	4	N
14-18	776 40400	0.1.100		
Full-quarter job creation for Male and Female and age	FJC_A0A00	01428	4	N
14-99	776 40400	0.1.170		
Full-quarter job creation for Male and Female and age	FJCA0A02	01452	4	N
19-21	TIC ACADO	04.404		3.7
Full-quarter job creation for Male and Female and age	FJC_A0A03	01464	4	N
22-24	TIC ASASI	04.450		3.7
Full-quarter job creation for Male and Female and age	FJC_A0A04	01476	4	N
25-34	THE ADAR	04.400		3.7
Full-quarter job creation for Male and Female and age	FJC_A0A05	01488	4	N
35-44	THO ACADA	04 500	,	3.7
Full-quarter job creation for Male and Female and age	FJC_A0A06	01500	4	N
45-54				

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Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Full-quarter job creation for Male and Female and age 55-64	FJC_A0A07	01512	4	N
Full-quarter job creation for Male and Female and age 65-99	FJC_A0A08	01524	4	N
Full-quarter job creation for Male and age 14-18	FJC_A1A01	01444	4	N
Full-quarter job creation for Male and age 14-99	FJC_A1A00	01432	4	N
Full-quarter job creation for Male and age 19-21	FJC_A1A02	01456	4	N
Full-quarter job creation for Male and age 22-24	FJC_A1A03	01468	4	N
Full-quarter job creation for Male and age 25-34	FJC_A1A04	01480	$\overline{4}$	N
Full-quarter job creation for Male and age 35-44	FJC_A1A05	01492	$\overline{4}$	N
Full-quarter job creation for Male and age 45-54	FJC_A1A06	01504	4	N
Full-quarter job creation for Male and age 55-64	FJC_A1A07	01516	$\overline{4}$	N
Full-quarter job creation for Male and age 65-99	FJC_A1A08	01528	$\overline{4}$	N
Full-quarter job destruction for Female and age 14-18	FJD_A2A01	01664	4	N
Full-quarter job destruction for Female and age 14-99	FJD_A2A00	01652	4	N
Full-quarter job destruction for Female and age 19-21	FJD_A2A02	01676	$\overline{4}$	N
Full-quarter job destruction for Female and age 22-24	FJD_A2A03	01688	$\overline{4}$	N
Full-quarter job destruction for Female and age 25-34	FJD_A2A04	01700	$\overline{4}$	N
Full-quarter job destruction for Female and age 35-44	FJD_A2A05	01712	4	N
Full-quarter job destruction for Female and age 45-54	FJD_A2A06	01724	4	N
Full-quarter job destruction for Female and age 55-64	FJD_A2A07	01736	4	N
Full-quarter job destruction for Female and age 65-99	FJD_A2A08	01748	4	N
Full-quarter job destruction for Male and Female and	FJD_A0A01	01656	4	N
age 14-18 Full-quarter job destruction for Male and Female and	$\mathrm{FJD}\text{-}\mathrm{A0A00}$	01644	4	N
age 14-99 Full-quarter job destruction for Male and Female and	FJD_A0A02	01668	4	N
age 19-21 Full-quarter job destruction for Male and Female and	FJD_A0A03	01680	4	N
age 22-24				
Full-quarter job destruction for Male and Female and age 25-34	$\mathrm{FJD}_{-}\mathrm{A0A04}$	01692	4	N
Full-quarter job destruction for Male and Female and age 35-44	$\mathrm{FJD}_\mathrm{A0A05}$	01704	4	N
Full-quarter job destruction for Male and Female and	$\mathrm{FJD_A0A06}$	01716	4	N
age 45-54 Full-quarter job destruction for Male and Female and	FJD_A0A07	01728	4	N
age 55-64 Full-quarter job destruction for Male and Female and	FJD_A0A08	01740	4	N
age 65-99	EID A1A01	01660	4	N
Full quarter job destruction for Male and age 14-18	FJD_A1A01	01660	4	N
Full quarter job destruction for Male and age 14-99	FJD_A1A00	01648	4	N N
Full quarter job destruction for Male and age 19-21	FJD_A1A02	01672	4	N
Full-quarter job destruction for Male and age 22-24 Full-quarter job destruction for Male and age 25-34	FJD_A1A03 FJD_A1A04	$01684 \\ 01696$	4	N N
- •		01708	4	
Full quarter job destruction for Male and age 35-44	FJD_A1A05 FJD_A1A06	01708	$\frac{4}{4}$	N N
Full-quarter job destruction for Male and age 45-54 Full-quarter job destruction for Male and age 55-64	FJD_A1A00 FJD_A1A07	01720	4	N N
Full-quarter job destruction for Male and age 65-99	FJD_A1A08	01732	4	N N
Full-quarter new hires for Female and age 14-18	H3_A2A01	02420	4	N N
run-quarter new intes for remaie and age 14-18	110_A2AU1	02420	4	11/

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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORKFORCE INDICAL		· · · /		
Field name	Data dictionary	Starting	Field	Data
Evil quantar name binne for E1 1 14.00	reference name	position	size	type
Full-quarter new hires for Female and age 14-99	H3_A2A00	02408	4	N
Full-quarter new hires for Female and age 19-21	H3_A2A02	02432	4	N
Full-quarter new hires for Female and age 22-24	H3_A2A03	02444	4	N
Full-quarter new hires for Female and age 25-34	H3_A2A04	02456	4	N
Full-quarter new hires for Female and age 35-44	H3_A2A05	02468	4	N
Full-quarter new hires for Female and age 45-54	H3_A2A06	02480	4	N
Full-quarter new hires for Female and age 55-64	H3_A2A07	02492	4	N
Full-quarter new hires for Female and age 65-99	H3_A2A08	02504	4	N
Full-quarter new hires for Male and Female and age 14-18	H3_A0A01	02412	4	N
Full-quarter new hires for Male and Female and age 14-99	H3_A0A00	02400	4	N
Full-quarter new hires for Male and Female and age 19-21	H3_A0A02	02424	4	N
Full-quarter new hires for Male and Female and age 22-24	H3_A0A03	02436	4	N
Full-quarter new hires for Male and Female and age	H3_A0A04	02448	4	N
25-34 Full-quarter new hires for Male and Female and age	H3_A0A05	02460	4	N
35-44 Full-quarter new hires for Male and Female and age	H3_A0A06	02472	4	N
45-54 Full-quarter new hires for Male and Female and age	H3_A0A07	02484	4	N
55-64 Full-quarter new hires for Male and Female and age	H3_A0A08	02496	4	N
65-99				
Full-quarter new hires for Male and age 14-18	H3_A1A01	02416	4	N
Full-quarter new hires for Male and age 14-99	H3_A1A00	02404	4	N
Full-quarter new hires for Male and age 19-21	H3_A1A02	02428	4	N
Full-quarter new hires for Male and age 22-24	H3_A1A03	02440	4	N
Full-quarter new hires for Male and age 25-34	H3_A1A04	02452	4	N
Full-quarter new hires for Male and age 35-44	H3_A1A05	02464	4	N
Full-quarter new hires for Male and age 45-54	H3_A1A06	02476	4	N
Full-quarter new hires for Male and age 55-64	H3_A1A07	02488	4	N
Full-quarter new hires for Male and age 65-99	H3_A1A08	02500	4	N
Job creation for Female and age 14-18	JC_A2A01	00692	4	N
Job creation for Female and age 14-99	JC_A2A00	00680	4	N
Job creation for Female and age 19-21	JC_A2A02	00704	4	N
Job creation for Female and age 22-24	JC_A2A03	00716	4	N
Job creation for Female and age 25-34	JC_A2A04	00728	4	N
Job creation for Female and age 35-44	JC_A2A05	00740	4	N
Job creation for Female and age 45-54	JCA2A06	00752	4	N
Job creation for Female and age 55-64	JC_A2A07	00764	4	N
Job creation for Female and age 65-99	JC_A2A08	00776	4	N
Job creation for Male and Female and age 14-18	JC_A0A01	00684	4	N
Job creation for Male and Female and age 14-99	JC_A0A00	00672	4	N
Job creation for Male and Female and age 19-21	JC_A0A02	00696	4	N
Job creation for Male and Female and age 22-24	JC_A0A03	00708	4	N
Job creation for Male and Female and age 25-34 Job creation for Male and Female and age 35-44	JC_A0A04 JC_A0A05	$00720 \\ 00732$	$\frac{4}{4}$	N N

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Field	
size	Data
size 4	type
4	N
4	N
4	N
$\frac{4}{5}$	N
	N N
	N N
	N N
4	N N
$\frac{4}{3}$	N
4	N
	N N
4	
4	N
4	N
4	N
4	N
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4	N
4	N
4	N
4	N
4	N
4	N
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4	N
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. 8	A/N
4	N
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4	N
4	N
4	N
	4

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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORKFORCE INDICA.		· · · ·		
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Net change in full-quarter employment for Female and age 35-44	FJF_A2A05	01172	4	N
Net change in full-quarter employment for Female and age 45-54	FJF_A2A06	01184	4	N
Net change in full-quarter employment for Female and	FJF_A2A07	01196	4	N
age 55-64 Net change in full-quarter employment for Female and	FJF_A2A08	01208	4	N
age 65-99 Net change in full-quarter employment for Male and	FJF_A0A01	01116	4	N
Female and age 14-18 Net change in full-quarter employment for Male and	FJF_A0A00	01104	4	N
Female and age 14-99 Net change in full-quarter employment for Male and	FJF_A0A02	01128	4	N
Female and age 19-21 Net change in full-quarter employment for Male and	FJF_A0A03	01140	4	N
Female and age 22-24 Net change in full-quarter employment for Male and	FJF_A0A04	01152	4	N
Female and age 25-34 Net change in full-quarter employment for Male and	FJF_A0A05	01164	4	N
Female and age 35-44 Net change in full-quarter employment for Male and	FJF_A0A06	01176	4	N
Female and age 45-54 Net change in full-quarter employment for Male and	FJF_A0A07	01188	4	N
Female and age 55-64 Net change in full-quarter employment for Male and	FJF_A0A08	01200	4	N
Female and age 65-99				
Net change in full-quarter employment for Male and age 14-18	FJF_A1A01	01120	4	N
Net change in full-quarter employment for Male and age 14-99	FJF_A1A00	01108	4	N
Net change in full-quarter employment for Male and age 19-21	FJF_A1A02	01132	4	N
Net change in full-quarter employment for Male and age 22-24	FJF_A1A03	01144	4	N
Net change in full-quarter employment for Male and age 25-34	FJF_A1A04	01156	4	N
Net change in full-quarter employment for Male and age 35-44	FJF_A1A05	01168	4	N
Net change in full-quarter employment for Male and age 45-54	FJF_A1A06	01180	4	N
Net change in full-quarter employment for Male and age 55-64	FJF_A1A07	01192	4	N
Net change in full-quarter employment for Male and age 65-99	FJF_A1A08	01204	4	N
Net job flows for Female and age 14-18	$\rm JF_A2A01$	00476	4	N
Net job flows for Female and age 14-99	JF_A2A00	00464	4	N
Net job flows for Female and age 19-21	JF_A2A02	00488	4	N
Net job flows for Female and age 22-24	JF_A2A03	00500	4	N
Net job flows for Female and age 25-34	JF_A2A04	00512	4	N
Net job flows for Female and age 35-44	JF_A2A05	00524	4	N
·				

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 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
rieid name	reference name	position	size	type
Net job flows for Female and age 45-54	JF_A2A06	00536	4	N
Net job flows for Female and age 55-64	JF_A2A07	00548	4	N
Net job flows for Female and age 65-99	JF_A2A08	00560	4	N
Net job flows for Male and Female and age 14-18	JF_A0A01	00468	4	N
Net job flows for Male and Female and age 14-99	JF_A0A00	00456	4	N
Net job flows for Male and Female and age 19-21	JF_A0A02	00480	4	N
Net job flows for Male and Female and age 22-24	JF_A0A03	00492	$\overline{4}$	N
Net job flows for Male and Female and age 25-34	JF_A0A04	00504	4	N
Net job flows for Male and Female and age 35-44	JF_A0A05	00516	$\stackrel{1}{4}$	N
Net job flows for Male and Female and age 45-54	JF_A0A06	00528	$\overline{4}$	N
Net job flows for Male and Female and age 55-64	JF_A0A07	00540	$\overline{4}$	N
Net job flows for Male and Female and age 65-99	JF_A0A08	00552	$\overline{4}$	N
Net job flows for Male and age 14-18	JF_A1A01	00472	$\overline{4}$	N
Net job flows for Male and age 14-99	JF_A1A00	00460	$\overline{4}$	N
Net job flows for Male and age 19-21	JF_A1A02	00484	$\overline{4}$	N
Net job flows for Male and age 22-24	JF_A1A03	00496	4	N
Net job flows for Male and age 25-34	JF_A1A04	00508	4	N
Net job flows for Male and age 35-44	JF_A1A05	00520	4	N
Net job flows for Male and age 45-54	JF_A1A06	00532	4	N
Net job flows for Male and age 55-64	JF_A1A07	00544	4	N
Net job flows for Male and age 65-99	JF_A1A08	00556	4	N
New hires for Female and age 14-18	H_A2A01	02312	4	N
New hires for Female and age 14-99	H_A2A00	02300	4	N
New hires for Female and age 19-21	H_A2A02	02324	4	N
New hires for Female and age 22-24	H_A2A03	02336	4	N
New hires for Female and age 25-34	H_A2A04	02348	4	N
New hires for Female and age 35-44	H_A2A05	02360	4	N
New hires for Female and age 45-54	H_A2A06	02372	4	N
New hires for Female and age 55-64	H_A2A07	02384	4	N
New hires for Female and age 65-99	H_A2A08	02396	4	N
New hires for Male and Female and age 14-18	H_A0A01	02304	4	N
New hires for Male and Female and age 14-19	H_A0A00	02292	4	N
New hires for Male and Female and age 19-21	H_A0A02	02316	4	N
New hires for Male and Female and age 22-24	H_A0A03	02328	4	N
New hires for Male and Female and age 25-34	H_A0A04	02340	4	N
New hires for Male and Female and age 35-44	H_A0A05	02352	4	N
New hires for Male and Female and age 45-54	H_A0A06	02364	4	N
New hires for Male and Female and age 55-64	H_A0A07	02376	4	N
New hires for Male and Female and age 65-99	H_A0A08	02388	4	N
New hires for Male and age 14-18	H_A1A01	02308	4	N
New hires for Male and age 14-99	H_A1A00	02296	4	N
New hires for Male and age 19-21	H_A1A02	02320	4	N
New hires for Male and age 22-24	H_A1A03	02332	4	N
New hires for Male and age 25-34	H_A1A04	02344	4	N
New hires for Male and age 35-44	H_A1A05	02356	4	N
New hires for Male and age 45-54	H_A1A06	02368	4	N
New hires for Male and age 55-64	H_A1A07	02380	4	N
New hires for Male and age 65-99	H_A1A08	02392	4	N
QWI weight correction factor	QWI_WCF	00008	8	N
Quarter QQ	QUARTER	07537	3	N
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Eight name			T2: -1.1	Dete
Field name	Data dictionary reference name	Starting position	Field size	Data type
Recalls for Female and age 14-18	R_A2A01	02528	4	N
Recalls for Female and age 14-16	R_A2A01	02528 02516	4	N
Recalls for Female and age 19-21	R_A2A02	02540	4	N
Recalls for Female and age 22-24	R_A2A03	02540 02552	$\frac{4}{4}$	N
	R_A2A04	02564	$\frac{4}{4}$	N
Recalls for Female and age 25-34	R_A2A04 R_A2A05	02576		N
Recalls for Female and age 35-44	R_A2A06	$02570 \\ 02588$	4	N
Recalls for Female and age 45-54			4	
Recalls for Female and age 55-64	R_A2A07	$02600 \\ 02612$	$\frac{4}{4}$	N N
Recalls for Female and age 65-99 Recalls for Male and Female and age 14.18	R_A2A08	02512 02520	$\frac{4}{4}$	N
Recalls for Male and Female and age 14-18	R_A0A01	02520 02508	$\frac{4}{4}$	N
Recalls for Male and Female and age 14-99	R_A0A00	02508 02532		N
Recalls for Male and Fernale and age 19-21	R_A0A02		4	
Recalls for Male and Female and age 22-24	R_A0A03	02544	4	N
Recalls for Male and Female and age 25-34	R_A0A04	02556	4	N
Recalls for Male and Female and age 35-44	R_A0A05	02568	4	N
Recalls for Male and Female and age 45-54	R_A0A06	02580	4	N
Recalls for Male and Female and age 55-64	R_A0A07	02592	4	N
Recalls for Male and Female and age 65-99	R_A0A08	02604	4	N
Recalls for Male and age 14-18	R_A1A01	02524	4	N
Recalls for Male and age 14-99	R_A1A00	02512	4	N
Recalls for Male and age 19-21	R_A1A02	02536	4	N
Recalls for Male and age 22-24	R_A1A03	02548	4	N
Recalls for Male and age 25-34	R_A1A04	02560	4	N
Recalls for Male and age 35-44	R_A1A05	02572	4	N
Recalls for Male and age 45-54	R_A1A06	02584	4	N
Recalls for Male and age 55-64	R_A1A07	02596	4	N
Recalls for Male and age 65-99	R_A1A08	02608	4	N
Separations for Female and age 14-18	S_A2A01	02096	4	N
Separations for Female and age 14-99	S_A2A00	02084	4	N
Separations for Female and age 19-21	S_A2A02	02108	4	N
Separations for Female and age 22-24	S_A2A03	02120	4	N
Separations for Female and age 25-34	S_A2A04	02132	4	N
Separations for Female and age 35-44	S_A2A05	02144	4	N
Separations for Female and age 45-54	S_A2A06	02156	4	N
Separations for Female and age 55-64	S_A2A07	02168	4	N
Separations for Female and age 65-99	S_A2A08	02180	4	N
Separations for Male and Female and age 14-18	S_A0A01	02088	4	N
Separations for Male and Female and age 14-99	S_A0A00	02076	4	N
Separations for Male and Female and age 19-21	S_A0A02	02100	4	N
Separations for Male and Female and age 22-24	S_A0A03	02112	4	N
Separations for Male and Female and age 25-34	S_A0A04	02124	4	N
Separations for Male and Female and age 35-44	S_A0A05	02136	4	N
Separations for Male and Female and age 45-54	S_A0A06	02148	4	N
Separations for Male and Female and age 55-64	S_A0A07	02160	4	N
Separations for Male and Female and age 65-99	S_A0A08	02172	4	N
Separations for Male and age 14-18	S_A1A01	02092	4	N
Separations for Male and age 14-99	S_A1A00	02080	4	N
Separations for Male and age 19-21	S_A1A02	02104	4	N
Separations for Male and age 22-24	S_A1A03	02116	4	N
Separations for Male and age 25-34	S_A1A04	02128	4	N

Eight				
Field name	Data dictionary reference name	Starting position	Field size	Data
Separations for Male and age 35-44	S_A1A05	02140	size 4	type
Separations for Male and age 45-54	S_A1A06	02140 02152	4	N
Separations for Male and age 55-64	S_A1A00 S_A1A07	02152 02164	4	N
-		02104 02176		N N
Separations for Male and age 65-99	S_A1A08		4	
State Employer ID Number	SEIN	07476	12	A/N
State UI Reporting Unit Number	SEINUNIT	07488	5	A/N
Sub-county geocode	LEG_SUBCTYGEO	07509	10	A/N
Sum of log of earnings of beginning-of-period employment for Female and age 14-1	LNWB_A2A01	05444	4	N
Sum of log of earnings of beginning-of-period employment for Female and age 14-9	LNWB_A2A00	05432	4	N
Sum of log of earnings of beginning-of-period employ-	LNWB_A2A02	05456	4	N
ment for Female and age 19-2	40400	05.400		3.7
Sum of log of earnings of beginning-of-period employment for Female and age 22-2	LNWB_A2A03	05468	4	N
Sum of log of earnings of beginning-of-period employ-	LNWB_A2A04	05480	4	N
ment for Female and age 25-3	ERW D-112110 1	00100	1	11
Sum of log of earnings of beginning-of-period employ-	$LNWB_A2A05$	05492	4	N
ment for Female and age 35-4				
Sum of log of earnings of beginning-of-period employment for Female and age 45-5	LNWB_A2A06	05504	4	N
Sum of log of earnings of beginning-of-period employ-	LNWB_A2A07	05516	4	N
ment for Female and age 55-6	ENWELTETTOT	00010	1	11
Sum of log of earnings of beginning-of-period employ-	$LNWB_A2A08$	05528	4	N
ment for Female and age 65-9				
Sum of log of earnings of beginning-of-period employ-	LNWB_A0A01	05436	4	N
ment for Male and Female and				
Sum of log of earnings of beginning-of-period employ-	LNWB_A0A00	05424	4	N
ment for Male and Female and	A O A O O	05440	4	TN T
Sum of log of earnings of beginning-of-period employ-	LNWB_A0A02	05448	4	N
ment for Male and Female and	1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N	05460	4	NT
Sum of log of earnings of beginning-of-period employment for Male and Female and	LNWB_A0A03	05460	4	N
Sum of log of earnings of beginning-of-period employ-	LNWB_A0A04	05472	4	N
ment for Male and Female and	LNWD_AUAU4	05472	4	11
Sum of log of earnings of beginning-of-period employ-	LNWB_A0A05	05484	4	N
ment for Male and Female and	ENWB_1101109	00404	4	11
Sum of log of earnings of beginning-of-period employ-	LNWB_A0A06	05496	4	N
ment for Male and Female and	ENVIDENTOTION	00100	1	11
Sum of log of earnings of beginning-of-period employ-	LNWB_A0A07	05508	4	N
ment for Male and Female and	ENWESTION .	00000	-	1,
Sum of log of earnings of beginning-of-period employ-	LNWB_A0A08	05520	4	N
ment for Male and Female and		000_0	_	
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A01	05440	4	N
ment for Male and age 14-18				
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A00	05428	4	N
ment for Male and age 14-99				
Sum of log of earnings of beginning-of-period employ-	$LNWB_A1A02$	05452	4	N
ment for Male and age 19-21				

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 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name		(• /	Field	D /
rieid name	Data dictionary reference name	Starting position	size	Data type
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A03	05464	4	N
ment for Male and age 22-24	DIVID_IIII100	00101	1	1,
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A04	05476	4	N
ment for Male and age 25-34		002.0		
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A05	05488	4	N
ment for Male and age 35-44				
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A06	05500	4	N
ment for Male and age 45-54				
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A07	05512	4	N
ment for Male and age 55-64				
Sum of log of earnings of beginning-of-period employ-	LNWB_A1A08	05524	4	N
ment for Male and age 65-99				
Sum of log of earnings of end-of-period employment	LNWE_A2A01	05984	4	N
for Female and age 14-18				
Sum of log of earnings of end-of-period employment	LNWE_A2A00	05972	4	N
for Female and age 14-99				
Sum of log of earnings of end-of-period employment	$LNWE_A2A02$	05996	4	N
for Female and age 19-21	40400	0.000	4	3.7
Sum of log of earnings of end-of-period employment	$LNWE_A2A03$	06008	4	N
for Female and age 22-24	******	0,000	4	ΝT
Sum of log of earnings of end-of-period employment	$LNWE_A2A04$	06020	4	N
for Female and age 25-34	LNWE_A2A05	06032	4	N
Sum of log of earnings of end-of-period employment for Female and age 35-44	LNWE_AZAU0	00032	4	IN
Sum of log of earnings of end-of-period employment	LNWE_A2A06	06044	4	N
for Female and age 45-54	LNWE_AZAUU	00044	4	11
Sum of log of earnings of end-of-period employment	LNWE_A2A07	06056	4	N
for Female and age 55-64	LIVE LITETION	00000		11
Sum of log of earnings of end-of-period employment	LNWE_A2A08	06068	4	N
for Female and age 65-99		00000	_	
Sum of log of earnings of end-of-period employment	LNWE_A0A01	05976	4	N
for Male and Female and age 1				
Sum of log of earnings of end-of-period employment	LNWE_A0A00	05964	4	N
for Male and Female and age 1				
Sum of log of earnings of end-of-period employment	LNWE_A0A02	05988	4	N
for Male and Female and age 1				
Sum of log of earnings of end-of-period employment	$LNWE_A0A03$	06000	4	\mathbf{N}
for Male and Female and age 2				
Sum of log of earnings of end-of-period employment	LNWE_A0A04	06012	4	N
for Male and Female and age 2				
Sum of log of earnings of end-of-period employment	$LNWE_A0A05$	06024	4	N
for Male and Female and age 3	10100			
Sum of log of earnings of end-of-period employment	LNWE_A0A06	06036	4	N
for Male and Female and age 4	A O A O =	0.00.40		N. T
Sum of log of earnings of end-of-period employment	$LNWE_A0A07$	06048	4	N
for Male and Female and age 5	A 0 A 0 0	06060	4	N.T.
Sum of log of earnings of end-of-period employment	LNWE_A0A08	06060	4	N
for Male and Female and age 6 Sum of log of earnings of end-of-period employment	LNWE_A1A01	05980	4	N
for Male and age 14-18	LIVWE_AIAUI	09900	4	1N
101 Maic and ago 14-10				

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Field name		Starting		
Field name	Data dictionary reference name	Starting position	Field size	Data type
Sum of log of earnings of end-of-period employment	LNWE_A1A00	05968	4	N
for Male and age 14-99	LIWE_ATAOU	05500	4	11
Sum of log of earnings of end-of-period employment	LNWE_A1A02	05992	4	N
for Male and age 19-21	LNWE_ATAU2	05992	4	IN
Sum of log of earnings of end-of-period employment	LNWE_A1A03	06004	4	N
	LNWE_ATAU3	00004	4	IN
for Male and age 22-24	* * * * * * * * * * * * * * * * * * *	00010	4	NT
Sum of log of earnings of end-of-period employment	LNWE_A1A04	06016	4	N
for Male and age 25-34	****** A 1 A 0 F	00000	4	NT
Sum of log of earnings of end-of-period employment	LNWE_A1A05	06028	4	N
for Male and age 35-44	11100	0.00.40		3.7
Sum of log of earnings of end-of-period employment	LNWE_A1A06	06040	4	N
for Male and age 45-54				
Sum of log of earnings of end-of-period employment	$LNWE_A1A07$	06052	4	N
for Male and age 55-64				
Sum of log of earnings of end-of-period employment	LNWE_A1A08	06064	4	N
for Male and age 65-99				
Sum of log of earnings of full-quarter employment for	$LNWF_A2A01$	06524	4	N
Female and age 14-18				
Sum of log of earnings of full-quarter employment for	$LNWF_A2A00$	06512	4	N
Female and age 14-99				
Sum of log of earnings of full-quarter employment for	$LNWF_A2A02$	06536	4	N
Female and age 19-21				
Sum of log of earnings of full-quarter employment for	LNWF_A2A03	06548	4	N
Female and age 22-24		000-0		
Sum of log of earnings of full-quarter employment for	$LNWF_A2A04$	06560	4	N
Female and age 25-34	ENVITERIENT	00000	-	11
Sum of log of earnings of full-quarter employment for	LNWF_A2A05	06572	4	N
Female and age 35-44	EI(WI	00912	•	11
Sum of log of earnings of full-quarter employment for	LNWF_A2A06	06584	4	N
Female and age 45-54	LINWF_AZAOO	00004	4	11
	LNWD 49407	06596	4	N
Sum of log of earnings of full-quarter employment for	$LNWF_A2A07$	00990	4	IN
Female and age 55-64	A 0 A 0 0	00000	4	NT
Sum of log of earnings of full-quarter employment for	LNWF_A2A08	06608	4	N
Female and age 65-99	A O A O 1	0.051.0	4	3.T
Sum of log of earnings of full-quarter employment for	LNWF_A0A01	06516	4	N
Male and Female and age 14	10100	0.0504		3.7
Sum of log of earnings of full-quarter employment for	$LNWF_A0A00$	06504	4	N
Male and Female and age 14				
Sum of log of earnings of full-quarter employment for	$LNWF_A0A02$	06528	4	N
Male and Female and age 19				
Sum of log of earnings of full-quarter employment for	$LNWF_A0A03$	06540	4	N
Male and Female and age 22				
Sum of log of earnings of full-quarter employment for	LNWF_A0A04	06552	4	N
Male and Female and age 25				
Sum of log of earnings of full-quarter employment for	$LNWF_A0A05$	06564	4	N
Male and Female and age 35				
Sum of log of earnings of full-quarter employment for	$LNWF_A0A06$	06576	4	N
Male and Female and age 45				
Sum of log of earnings of full-quarter employment for	LNWF_A0A07	06588	4	N
Male and Female and age 55				
- -				

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 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

E' 11		(• /	D: 11	D /
Field name	Data dictionary reference name	Starting position	Field size	Data
Sum of log of earnings of full-quarter employment for	LNWF_A0A08	06600	size 4	type N
Male and Female and age 65	LNWF_AUAU0	00000	4	11
Sum of log of earnings of full-quarter employment for	LNWF_A1A01	06520	4	N
Male and age 14-18	LNWF_AIAUI	00520	4	11
Sum of log of earnings of full-quarter employment for	LNWF_A1A00	06508	4	N
Male and age 14-99	LIVWF _7T17T00	00000	4	11
Sum of log of earnings of full-quarter employment for	LNWF_A1A02	06532	4	N
Male and age 19-21	EI(WF_FITTIO2	00002	-	11
Sum of log of earnings of full-quarter employment for	LNWF_A1A03	06544	4	N
Male and age 22-24	2111100	00011	-	
Sum of log of earnings of full-quarter employment for	LNWF_A1A04	06556	4	N
Male and age 25-34	21,111	00000	-	
Sum of log of earnings of full-quarter employment for	LNWF_A1A05	06568	4	N
Male and age 35-44	21,111	00000	-	- 1
Sum of log of earnings of full-quarter employment for	LNWF_A1A06	06580	4	N
Male and age 45-54	EIVWI EIIIII00	00000	-	1,
Sum of log of earnings of full-quarter employment for	LNWF_A1A07	06592	4	N
Male and age 55-64	Envir Errito.	00002	-	1,
Sum of log of earnings of full-quarter employment for	LNWF_A1A08	06604	4	N
Male and age 65-99	21,111212100	00001	-	
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A01	05552	4	N
ployment for Female and age	21,112101	00002	-	
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A00	05540	4	N
ployment for Female and age		000 20	_	
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A02	05564	4	N
ployment for Female and age				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A03	05576	4	N
ployment for Female and age				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A04	05588	4	N
ployment for Female and age				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A05	05600	4	N
ployment for Female and age				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A06	05612	4	N
ployment for Female and age				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A07	05624	4	N
ployment for Female and age				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A2A08	05636	4	N
ployment for Female and age				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A0A01	05544	4	N
ployment for Male and Female				
Sum of log of lag earnings of beginning-of-period em-	$LNWBLG_A0A00$	05532	4	N
ployment for Male and Female				
Sum of log of lag earnings of beginning-of-period em-	$LNWBLG_A0A02$	05556	4	N
ployment for Male and Female				
Sum of log of lag earnings of beginning-of-period em-	$LNWBLG_A0A03$	05568	4	N
ployment for Male and Female				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A0A04	05580	4	N
ployment for Male and Female				
Sum of log of lag earnings of beginning-of-period em-	$LNWBLG_A0A05$	05592	4	N
ployment for Male and Female				

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Field name	_		Field	Data
Field name	Data dictionary reference name	Starting position	size	type
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A0A06	05604	size 4	N
ployment for Male and Female	LIVWDLG_1101100	40004	-	11
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A0A07	05616	4	N
ployment for Male and Female	211112121101101	00010	-	
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A0A08	05628	4	N
ployment for Male and Female				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A01	05548	4	N
ployment for Male and age 14				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A00	05536	4	N
ployment for Male and age 14				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A02	05560	4	N
ployment for Male and age 19				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A03	05572	4	N
ployment for Male and age 22				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A04	05584	4	N
ployment for Male and age 25				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A05	05596	4	N
ployment for Male and age 35				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A06	05608	4	N
ployment for Male and age 45				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A07	05620	4	N
ployment for Male and age 55				
Sum of log of lag earnings of beginning-of-period em-	LNWBLG_A1A08	05632	4	N
ployment for Male and age 65				
Sum of log of lag earnings of full-quarter employment	$LNWFLG_A2A01$	06740	4	N
for Female and age 14-18				
Sum of log of lag earnings of full-quarter employment	LNWFLG_A2A00	06728	4	N
for Female and age 14-99				
Sum of log of lag earnings of full-quarter employment	$LNWFLG_A2A02$	06752	4	N
for Female and age 19-21				
Sum of log of lag earnings of full-quarter employment	LNWFLG_A2A03	06764	4	N
for Female and age 22-24				
Sum of log of lag earnings of full-quarter employment	$LNWFLG_A2A04$	06776	4	N
for Female and age 25-34				
Sum of log of lag earnings of full-quarter employment	$LNWFLG_A2A05$	06788	4	N
for Female and age 35-44	10100			
Sum of log of lag earnings of full-quarter employment	LNWFLG_A2A06	06800	4	N
for Female and age 45-54	4040=	0.004.0		3.7
Sum of log of lag earnings of full-quarter employment	$LNWFLG_A2A07$	06812	4	N
for Female and age 55-64	10100	0.000.4		3.7
Sum of log of lag earnings of full-quarter employment	LNWFLG_A2A08	06824	4	N
for Female and age 65-99	7 A O A O 1	0.6790	4	NT
Sum of log of lag earnings of full-quarter employment	LNWFLG_A0A01	06732	4	N
for Male and Female and ag Sum of log of lag earnings of full-quarter employment	LANGER C. A O A OO	06720	4	NT
	LNWFLG_A0A00	00720	4	N
for Male and Female and ag Sum of log of lag earnings of full-quarter employment	LNWFLG_A0A02	06744	4	N
for Male and Female and ag	LNWFLG_AUAU2	00744	4	1N
Sum of log of lag earnings of full-quarter employment	LNWFLG_A0A03	06756	4	N
for Male and Female and ag	DIAMA DO TIOU O	00190	4	11
for man and remain and ag				

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CHAPTER 7. QUARTERLY WORKFORCE INDICA		· · · /	T2:-1-1	D-4
Field name	Data dictionary reference name	Starting position	Field size	Data type
Sum of log of lag earnings of full-quarter employment	LNWFLG_A0A04	06768	4	N
for Male and Female and ag	211111111111111111111111111111111111111	00.00	-	-,
Sum of log of lag earnings of full-quarter employment	LNWFLG_A0A05	06780	4	N
for Male and Female and ag				
Sum of log of lag earnings of full-quarter employment	$LNWFLG_A0A06$	06792	4	N
for Male and Female and ag				
Sum of log of lag earnings of full-quarter employment	LNWFLG_A0A07	06804	4	N
for Male and Female and ag				
Sum of log of lag earnings of full-quarter employment	$LNWFLG_A0A08$	06816	4	N
for Male and Female and ag				
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A01	06736	4	N
for Male and age 14-18				
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A00	06724	4	N
for Male and age 14-99				
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A02	06748	4	N
for Male and age 19-21	44400	0.0=00		3.7
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A03	06760	4	N
for Male and age 22-24	7 A 1 A O 4	0.0770	4	™ T
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A04	06772	4	N
for Male and age 25-34	LNWFLG_A1A05	06784	4	N
Sum of log of lag earnings of full-quarter employment for Male and age 35-44	LNWFLG_ATA05	00764	4	11
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A06	06796	4	N
for Male and age 45-54	LNWFLG_ATAU0	00790	4	11
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A07	06808	4	N
for Male and age 55-64	LIVWI EGZITITOV	00000	1	11
Sum of log of lag earnings of full-quarter employment	LNWFLG_A1A08	06820	4	N
for Male and age 65-99				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A01	06092	4	N
ment for Female and age 14-18				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A00	06080	4	N
ment for Female and age 14-99				
Sum of log of lead earnings of end-of-period employ-	$LNWELD_A2A02$	06104	4	N
ment for Female and age 19-21				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A03	06116	4	N
ment for Female and age 22-24				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A04	06128	4	N
ment for Female and age 25-34	10105	0.04.40		3.7
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A05	06140	4	N
ment for Female and age 35-44	A Q A Q C	0.01 50	4	N.T.
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A06	06152	4	N
ment for Female and age 45-54 Sum of log of lead earnings of end-of-period employ-	1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N	06164	4	N
ment for Female and age 55-64	LNWELD_A2A07	00104	4	N
Sum of log of lead earnings of end-of-period employ-	LNWELD_A2A08	06176	4	N
ment for Female and age 65-99	LNWELD_A2A00	00170	4	11
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A01	06084	4	N
ment for Male and Female and	P14 44 EPID=14 (014 (0.1	00004	4	Τ.
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A00	06072	4	N
ment for Male and Female and		000.2		1,

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Field name		Storting		T
Field name	Data dictionary reference name	Starting position	Field size	Data type
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A02	06096	4	N
ment for Male and Female and	EI(WEDD_1101102	00030	7	11
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A03	06108	4	N
ment for Male and Female and	LIWELD_AUAU3	00100	4	11
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A04	06120	4	N
ment for Male and Female and	LNWELD_AUAU4	00120	4	11
	LNWELD_A0A05	06132	4	N
Sum of log of lead earnings of end-of-period employment for Male and Female and	LNWELD_AUAU3	00132	4	IN
	LNWELD_A0A06	06144	4	N
Sum of log of lead earnings of end-of-period employ-	LNWELD_AUAU0	06144	4	IN
ment for Male and Female and	******* A O A O 7	00150	4	NT.
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A07	06156	4	N
ment for Male and Female and	4.0.4.00	0.01.00		3.7
Sum of log of lead earnings of end-of-period employ-	LNWELD_A0A08	06168	4	N
ment for Male and Female and				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A01	06088	4	N
ment for Male and age 14-18				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A00	06076	4	N
ment for Male and age 14-99				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A02	06100	4	\mathbf{N}
ment for Male and age 19-21				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A03	06112	4	N
ment for Male and age 22-24				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A04	06124	4	N
ment for Male and age 25-34				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A05	06136	4	N
ment for Male and age 35-44				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A06	06148	4	N
ment for Male and age 45-54				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A07	06160	4	N
ment for Male and age 55-64				
Sum of log of lead earnings of end-of-period employ-	LNWELD_A1A08	06172	4	N
ment for Male and age 65-99				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A01	06632	4	N
for Female and age 14-18	ENWIBBERIE	00002	-	11
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A00	06620	4	N
for Female and age 14-99	ENWIEEERIE	00020	-	11
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A02	06644	4	N
for Female and age 19-21	ENWIEDZITZITOZ	00011	1	11
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A03	06656	4	N
for Female and age 22-24	LIWFLD_AZA05	00030	4	11
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A04	06668	4	N
for Female and age 25-34	LNWFLD_A2A04	00008	4	11
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A05	06680	4	N
for Female and age 35-44	LNWFLD_A2AU0	00000	4	1N
Sum of log of lead earnings of full-quarter employment	LMWELD ADAGE	06609	1	™ T
	LNWFLD_A2A06	06692	4	N
for Female and age 45-54	1 NUMBER A D A O Z	0.6704	4	™ T
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A07	06704	4	N
for Female and age 55-64	1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N	0.071.0	4	™ T
Sum of log of lead earnings of full-quarter employment	LNWFLD_A2A08	06716	4	N
for Female and age 65-99				

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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

Field name		<u> </u>	Field	Data
Field name	Data dictionary reference name	Starting position	size	type
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A01	06624	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A00	06612	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	$LNWFLD_A0A02$	06636	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A03	06648	4	\mathbf{N}
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A04	06660	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A05	06672	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A06	06684	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A07	06696	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A0A08	06708	4	N
for Male and Female and a				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A01	06628	4	N
for Male and age 14-18				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A00	06616	4	N
for Male and age 14-99				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A02	06640	4	N
for Male and age 19-21				
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A03	06652	4	N
for Male and age 22-24	41404	00001	4	N.T.
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A04	06664	4	N
for Male and age 25-34	41405	00050	4	N.T.
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A05	06676	4	N
for Male and age 35-44	4.4.4.0.0	0.0000		3.7
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A06	06688	4	N
for Male and age 45-54	A 4 A 0 T	0.0500	4	N.T.
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A07	06700	4	N
for Male and age 55-64	4.1.4.00	0.051.0	4	N.T.
Sum of log of lead earnings of full-quarter employment	LNWFLD_A1A08	06712	4	N
for Male and age 65-99	THE ACADA	0.4500	4	N.T.
Total earnings of separations for Female and age 14-18	WS_A2A01	04580	4	N
	HIG ADAGO	0.4500	4	TN T
Total earnings of separations for Female and age 14-99	WS_A2A00	04568	4	N
	IIIC AOAOO	0.4500	4	TN T
Total earnings of separations for Female and age 19-21	WS_A2A02	04592	4	N
	IVO AOAOO	0.460.4	4	N.T.
Total earnings of separations for Female and age 22-24	WS_A2A03	04604	4	N
	THO ADADA	0.461.6	4	TN T
Total earnings of separations for Female and age 25-34	WS_A2A04	04616	4	N
The large of the state of the s	TATO A O A OF	0.4600	4	ът
Total earnings of separations for Female and age 35-44	WS_A2A05	04628	4	N
Total compiners of generations for E11 - 47.54	MIC ADADE	0.46.40	A	NT
Total earnings of separations for Female and age 45-54	WS_A2A06	04640	4	N

Field name	Data dictionary	Starting	Field	Data
r ieid name	reference name	position	size	type
Total earnings of separations for Female and age 55-64	WS_A2A07	04652	4	N
		0 -00 -	_	
Total earnings of separations for Female and age 65-99	WS_A2A08	04664	4	N
Total earnings of separations for Male and Female and age $14-18$	WS_A0A01	04572	4	N
Total earnings of separations for Male and Female and	WS_A0A00	04560	4	N
age 14-99 Total earnings of separations for Male and Female and	WS_A0A02	04584	4	N
age 19-21 Total earnings of separations for Male and Female and age 22-24	WS_A0A03	04596	4	N
Total earnings of separations for Male and Female and age 25-34	WS_A0A04	04608	4	N
Total earnings of separations for Male and Female and age 35-44	WS_A0A05	04620	4	N
Total earnings of separations for Male and Female and age 45-54	WS_A0A06	04632	4	N
Total earnings of separations for Male and Female and	WS_A0A07	04644	4	N
age 55-64 Total earnings of separations for Male and Female and	WS_A0A08	04656	4	N
age 65-99 Total earnings of separations for Male and age 14-18	WS_A1A01	04576	4	N
Total earnings of separations for Male and age 14-19	WS_A1A01 WS_A1A00	04564	4	N
Total earnings of separations for Male and age 14-99 Total earnings of separations for Male and age 19-21	WS_A1A00 WS_A1A02	04588	4	N
Total earnings of separations for Male and age 13-21 Total earnings of separations for Male and age 22-24	WS_A1A02 WS_A1A03	04600	4	N
Total earnings of separations for Male and age 25-34	WS_A1A04	04612	4	N
Total earnings of separations for Male and age 25-54 Total earnings of separations for Male and age 35-44	WS_A1A05	04624	4	N
Total earnings of separations for Male and age 45-54	WS_A1A06	04636	4	N
Total earnings of separations for Male and age 55-64	WS_A1A07	04648	4	N
Total earnings of separations for Male and age 65-99	WS_A1A08	04660	4	N
Total earnings of separations from full-quarter status	WFS_A2A01	04796	4	N
(most recent full quarter	WF 521127101	04130	4	11
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A00	04784	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A02	04808	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A03	04820	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A04	04832	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A05	04844	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A06	04856	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A07	04868	4	N
Total earnings of separations from full-quarter status (most recent full quarter	WFS_A2A08	04880	4	N

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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

CHAPTER 7. QUARTERLY WORKFORCE INDICA		· · ·	D: 11	
Field name	Data dictionary reference name	Starting position	Field size	Data
Total earnings of separations from full-quarter status	WFS_A0A01	04788	size 4	type N18
(most recent full quarter	WFS_A0A01	04766	4	1110
Total earnings of separations from full-quarter status	WFS_A0A00	04776	4	N99
(most recent full quarter	VVI 5_110/100	04110	-	1100
Total earnings of separations from full-quarter status	WFS_A0A02	04800	4	N21
(most recent full quarter	VVI SEITOTIOE	01000	-	1,21
Total earnings of separations from full-quarter status	WFS_A0A03	04812	4	N24
(most recent full quarter	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	01012	-	1,21
Total earnings of separations from full-quarter status	WFS_A0A04	04824	4	N34
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A0A05	04836	4	N44
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A0A06	04848	4	N54
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A0A07	04860	4	N64
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A0A08	04872	4	N99
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A1A01	04792	4	N
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A1A00	04780	4	N
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A1A02	04804	4	N
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A1A03	04816	4	\mathbf{N}
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A1A04	04828	4	N
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A1A05	04840	4	N
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A1A06	04852	4	N
(most recent full quarter				
Total earnings of separations from full-quarter status	WFS_A1A07	04864	4	N
(most recent full quarter	THE ALADO	0.4070	4	N. T
Total earnings of separations from full-quarter status	WFS_A1A08	04876	4	N
(most recent full quarter	TT/A A Q A Q 1	00716	4	ът
Total payroll of accessions for Female and age 14-18	WA_A2A01	03716	4	N
Total payroll of accessions for Female and age 14-99	WA_A2A00	03704	4	N
Total payroll of accessions for Female and age 19-21	WA_A2A02	03728	4	N
Total payroll of accessions for Female and age 22-24	WA_A2A03	03740	4	N
Total payroll of accessions for Female and age 25-34	WA_A2A04	03752	4	N
Total payroll of accessions for Female and age 35-44	WA_A2A05 WA_A2A06	$03764 \\ 03776$	4	N N
Total payroll of accessions for Female and age 45-54	WA_A2A00 WA_A2A07	03788	4	N
Total payroll of accessions for Female and age 55-64	WA_A2A07 WA_A2A08	03800	4	N
Total payroll of accessions for Female and age 65-99 Total payroll of accessions for Male and Female and	WA_A2A08 WA_A0A01	03708	4	N N
age 14-18	WA_AUAUI	09108	4	1N
Total payroll of accessions for Male and Female and	WA_A0A00	03696	4	N
age 14-99	***************************************	00000	4	11
ω ₅ ∪ 11 00				

E. I.				
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Total payroll of accessions for Male and Female and age 19-21	WA_A0A02	03720	4	N
Total payroll of accessions for Male and Female and age 22-24	WA_A0A03	03732	4	N
Total payroll of accessions for Male and Female and	WA_A0A04	03744	4	N
age 25-34 Total payroll of accessions for Male and Female and	WA_A0A05	03756	4	N
age 35-44 Total payroll of accessions for Male and Female and	WA_A0A06	03768	4	N
age 45-54 Total payroll of accessions for Male and Female and	WA_A0A07	03780	4	N
age 55-64				
Total payroll of accessions for Male and Female and age 65-99	WA_A0A08	03792	4	N
Total payroll of accessions for Male and age 14-18	WA_A1A01	03712	4	N
Total payroll of accessions for Male and age 14-99	WA_A1A00	03700	4	N
Total payroll of accessions for Male and age 19-21	WA_A1A02	03724	4	N
Total payroll of accessions for Male and age 22-24	WA_A1A03	03736	4	N
Total payroll of accessions for Male and age 25-34	WA_A1A04	03748	4	N
Total payroll of accessions for Male and age 35-44	WA_A1A05	03760	4	N
Total payroll of accessions for Male and age 45-54	WA_A1A06	03772	4	N
Total payroll of accessions for Male and age 55-64	WA_A1A07	03784	$\overline{4}$	N
Total payroll of accessions for Male and age 65-99	WA_A1A08	03796	$\overline{4}$	N
Total payroll of all employees for Female and age 14-18	W1_A2A01	03284	4	N
Total payroll of all employees for Female and age 14-99	W1_A2A00	03272	4	N
Total payroll of all employees for Female and age 19-21	W1_A2A02	03296	4	N
Total payroll of all employees for Female and age 22-24	W1_A2A03	03308	4	N
Total payroll of all employees for Female and age 25-34	W1_A2A04	03320	4	N
Total payroll of all employees for Female and age 35-44	W1_A2A05	03332	4	N
Total payroll of all employees for Female and age 45-54	W1_A2A06	03344	4	N
Total payroll of all employees for Female and age 55-64	W1_A2A07	03356	4	N
Total payroll of all employees for Female and age 65-99	W1_A2A08	03368	4	N
Total payroll of all employees for Male and Female and age 14-18	W1_A0A01	03276	4	N
Total payroll of all employees for Male and Female and age 14-99	W1_A0A00	03264	4	N
Total payroll of all employees for Male and Female and age 19-21	W1_A0A02	03288	4	N
Total payroll of all employees for Male and Female and age 22-24	W1_A0A03	03300	4	N

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CHAITER 7. QUARTERED WORKFORCE INDICA		(• /	D: 11	T-5 :
Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Total payroll of all employees for Male and Female and age 25-34	W1_A0A04	03312	4	N
Total payroll of all employees for Male and Female and age 35-44	W1_A0A05	03324	4	N
Total payroll of all employees for Male and Female and	W1_A0A06	03336	4	N
age 45-54 Total payroll of all employees for Male and Female and	W1_A0A07	03348	4	N
age 55-64 Total payroll of all employees for Male and Female and	W1_A0A08	03360	4	N
age 65-99 Total payroll of all employees for Male and age 14-18	W1_A1A01	03280	4	N
Total payroll of all employees for Male and age 14-99	W1_A1A00	03268	4	N
Total payroll of all employees for Male and age 19-21	W1_A1A02	03292	4	N
Total payroll of all employees for Male and age 22-24	W1_A1A03	03304	4	N
Total payroll of all employees for Male and age 25-34	W1_A1A04	03316	4	N
Total payroll of all employees for Male and age 35-44	W1_A1A05	03328	4	N
Total payroll of all employees for Male and age 45-54	$W1_A1A06$	03340	4	N
Total payroll of all employees for Male and age 55-64	W1_A1A07	03352	4	N
Total payroll of all employees for Male and age 65-99	W1_A1A08	03364	4	N
Total payroll of end-of-period employees for Female and age 14-18	W2_A2A01	03392	4	N
Total payroll of end-of-period employees for Female and age 14-99	W2_A2A00	03380	4	N
Total payroll of end-of-period employees for Female and age 19-21	W2_A2A02	03404	4	N
Total payroll of end-of-period employees for Female and age 22-24	W2_A2A03	03416	4	N
Total payroll of end-of-period employees for Female	W2_A2A04	03428	4	N
and age 25-34 Total payroll of end-of-period employees for Female	W2_A2A05	03440	4	N
and age 35-44 Total payroll of end-of-period employees for Female	W2_A2A06	03452	4	N
and age 45-54 Total payroll of end-of-period employees for Female	W2_A2A07	03464	4	N
and age 55-64 Total payroll of end-of-period employees for Female	W2_A2A08	03476	4	N
and age 65-99 Total payroll of end-of-period employees for Male and	W2_A0A01	03384	4	N
Female and age 14-18 Total payroll of end-of-period employees for Male and	W2_A0A00	03372	4	N
Female and age 14-99				
Total payroll of end-of-period employees for Male and Female and age 19-21	W2_A0A02	03396	4	N
Total payroll of end-of-period employees for Male and Female and age 22-24	W2_A0A03	03408	4	N
Total payroll of end-of-period employees for Male and Female and age 25-34	W2_A0A04	03420	4	N
Total payroll of end-of-period employees for Male and Female and age 35-44	W2_A0A05	03432	4	N

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Field name				Data
Field name	Data dictionary reference name	Starting position	Field size	type
Total payroll of end-of-period employees for Male and	W2_A0A06	03444	4	N
Female and age 45-54				
Total payroll of end-of-period employees for Male and	W2_A0A07	03456	4	N
Female and age 55-64				
Total payroll of end-of-period employees for Male and	W2_A0A08	03468	4	N
Female and age 65-99				
Total payroll of end-of-period employees for Male and	W2_A1A01	03388	4	N
age 14-18				
Total payroll of end-of-period employees for Male and	W2_A1A00	03376	4	N
age 14-99				
Total payroll of end-of-period employees for Male and	$W2_A1A02$	03400	4	N
age 19-21				
Total payroll of end-of-period employees for Male and	$W2_A1A03$	03412	4	N
age 22-24	TTT0 1 1 1 0 1			
Total payroll of end-of-period employees for Male and	W2_A1A04	03424	4	N
age 25-34	TTT0	00.400	i	3.7
Total payroll of end-of-period employees for Male and	$W2_A1A05$	03436	4	N
age 35-44 Total payroll of end-of-period employees for Male and	W2_A1A06	02440	4	NT
1 0	W Z_A1A00	03448	4	N
age 45-54 Total payroll of end-of-period employees for Male and	W2_A1A07	03460	4	N
age 55-64	W 2_A1A01	05400	4	11
Total payroll of end-of-period employees for Male and	W2_A1A08	03472	4	N
age 65-99	VV 2_1111100	05412	4	11
Total payroll of full-quarter employees for Female and	W3_A2A01	03500	4	N
age 14-18	VV 0=1121101	00000	1	11
Total payroll of full-quarter employees for Female and	W3_A2A00	03488	4	N
age 14-99				
Total payroll of full-quarter employees for Female and	W3_A2A02	03512	4	N
age 19-21				
Total payroll of full-quarter employees for Female and	W3_A2A03	03524	4	N
age 22-24				
Total payroll of full-quarter employees for Female and	$W3_A2A04$	03536	4	N
age 25-34				
Total payroll of full-quarter employees for Female and	$W3_A2A05$	03548	4	N
age 35-44				
Total payroll of full-quarter employees for Female and	W3_A2A06	03560	4	N
age 45-54				
Total payroll of full-quarter employees for Female and	$W3_A2A07$	03572	4	N
age 55-64	****			
Total payroll of full-quarter employees for Female and	W3_A2A08	03584	4	N
age 65-99	III.0 A O A O 1	09.400	4	NT
Total payroll of full-quarter employees for Male and	W3_A0A01	03492	4	N
Female and age 14-18 Total payroll of full-quarter employees for Male and	$W_2 \wedge 0 \wedge 00$	02400	4	N T
Female and age 14-99	W3_A0A00	03480	4	N
Total payroll of full-quarter employees for Male and	W3_A0A02	03504	4	N
Female and age 19-21	W J_AUAU4	05504	4	1N
Total payroll of full-quarter employees for Male and	W3_A0A03	03516	4	N
Female and age 22-24	11.0=11.011.00	03010	4	11
2011010 0114 050 22 21				

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Eigld name	1	(- /	Ti al J	Dots
Field name	Data dictionary reference name	Starting position	Field size	Data type
Total payroll of full-quarter employees for Male and	W3_A0A04	03528	4	N
Female and age 25-34	VV 021101101	00020	1	1,
Total payroll of full-quarter employees for Male and	W3_A0A05	03540	4	N
Female and age 35-44	.,	000-0	_	
Total payroll of full-quarter employees for Male and	W3_A0A06	03552	4	N
Female and age 45-54				
Total payroll of full-quarter employees for Male and	W3_A0A07	03564	4	N
Female and age 55-64				
Total payroll of full-quarter employees for Male and	W3_A0A08	03576	4	N
Female and age 65-99				
Total payroll of full-quarter employees for Male and	W3_A1A01	03496	4	N
age 14-18				
Total payroll of full-quarter employees for Male and	W3_A1A00	03484	4	N
age 14-99				
Total payroll of full-quarter employees for Male and	W3_A1A02	03508	4	N
age 19-21				
Total payroll of full-quarter employees for Male and	W3_A1A03	03520	4	N
age 22-24				
Total payroll of full-quarter employees for Male and	W3_A1A04	03532	4	N
age 25-34				
Total payroll of full-quarter employees for Male and	$W3_A1A05$	03544	4	N
age 35-44				
Total payroll of full-quarter employees for Male and	W3_A1A06	03556	4	N
age 45-54				
Total payroll of full-quarter employees for Male and	W3-A1A07	03568	4	N
age $55-64$				
Total payroll of full-quarter employees for Male and	W3_A1A08	03580	4	N
age 65-99				
Total payroll of new hires to full-quarter status for	$WH3_A2A01$	03608	4	N
Female and age 14-18				
Total payroll of new hires to full-quarter status for	$WH3_A2A00$	03596	4	N
Female and age 14-99				
Total payroll of new hires to full-quarter status for	$WH3_A2A02$	03620	4	N
Female and age 19-21	TTTT0 40400	00000		3.7
Total payroll of new hires to full-quarter status for	WH3_A2A03	03632	4	N
Female and age 22-24	TITLE ADAGA	00044	4	78.7
Total payroll of new hires to full-quarter status for	WH3_A2A04	03644	4	N
Female and age 25-34	MILLO ADADE	09050	4	NT
Total payroll of new hires to full-quarter status for	$WH3_A2A05$	03656	4	N
Female and age 35-44	WILLS ADAGE	02660	4	NT
Total payroll of new hires to full-quarter status for Female and age 45-54	WH3_A2A06	03668	4	N
Total payroll of new hires to full-quarter status for	WH3_A2A07	03680	4	N
Female and age 55-64	W115_A2A01	03000	4	11
Total payroll of new hires to full-quarter status for	WH3_A2A08	03692	4	N
Female and age 65-99	W110_1121100	03032	4	11
Total payroll of new hires to full-quarter status for	WH3_A0A01	03600	4	N
Male and Female and age 14	,,110_1101101	09000	Ŧ	11
Total payroll of new hires to full-quarter status for	WH3_A0A00	03588	4	N
Male and Female and age 14		23000	<u>*</u>	± ·

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Field name			Field	Data
Field name	Data dictionary reference name	Starting position	Field size	
Total payroll of new hires to full-quarter status for	WH3_A0A02	03612	size 4	type
	W H3_AUAU2	03012	4	IN
Male and Female and age 19	WILLS A 0 A 0 2	02624	4	N
Total payroll of new hires to full-quarter status for	WH3_A0A03	03624	4	IN
Male and Female and age 22	TITLE ACADA	00000	4	ЪТ
Total payroll of new hires to full-quarter status for	WH3_A0A04	03636	4	N
Male and Female and age 25				
Total payroll of new hires to full-quarter status for	$WH3_A0A05$	03648	4	N
Male and Female and age 35				
Total payroll of new hires to full-quarter status for	WH3_A0A06	03660	4	N
Male and Female and age 45				
Total payroll of new hires to full-quarter status for	$WH3_A0A07$	03672	4	N
Male and Female and age 55				
Total payroll of new hires to full-quarter status for	WH3_A0A08	03684	4	N
Male and Female and age 65				
Total payroll of new hires to full-quarter status for	WH3_A1A01	03604	4	N
Male and age 14-18				
Total payroll of new hires to full-quarter status for	WH3_A1A00	03592	4	N
Male and age 14-99	VV 110=1111100	00002	-	11
Total payroll of new hires to full-quarter status for	WH3_A1A02	03616	4	N
Male and age 19-21	W119_111102	03010	4	11
Total payroll of new hires to full-quarter status for	WII2 A 1 A 02	03628	4	N
- *	WH3_A1A03	03028	4	IN
Male and age 22-24	11110 41404	00040	4	3.7
Total payroll of new hires to full-quarter status for	WH3_A1A04	03640	4	N
Male and age 25-34				
Total payroll of new hires to full-quarter status for	$WH3_A1A05$	03652	4	N
Male and age 35-44				
Total payroll of new hires to full-quarter status for	WH3_A1A06	03664	4	N
Male and age 45-54				
Total payroll of new hires to full-quarter status for	WH3_A1A07	03676	4	N
Male and age 55-64				
Total payroll of new hires to full-quarter status for	WH3_A1A08	03688	4	N
Male and age 65-99				
Total payroll of transits to consecutive-quarter status	WCA_A2A01	03932	4	N
for Female and age 14-18	,, , , , , , , , , , , , , , , , , , , ,	0000_	_	
Total payroll of transits to consecutive-quarter status	WCA_A2A00	03920	4	N
for Female and age 14-99	VV 01121121100	00020	•	11
Total payroll of transits to consecutive-quarter status	WCA_A2A02	03944	4	N
- v	WCA_AZAUZ	03344	4	11
for Female and age 19-21	WCA ASASS	02056	4	NT
Total payroll of transits to consecutive-quarter status	WCA_A2A03	03956	4	N
for Female and age 22-24	W.G. 10101	00000		3.7
Total payroll of transits to consecutive-quarter status	WCA_A2A04	03968	4	N
for Female and age 25-34				
Total payroll of transits to consecutive-quarter status	WCA_A2A05	03980	4	N
for Female and age 35-44				
Total payroll of transits to consecutive-quarter status	WCA_A2A06	03992	4	N
for Female and age 45-54				
Total payroll of transits to consecutive-quarter status	WCA_A2A07	04004	4	N
for Female and age 55-64				
Total payroll of transits to consecutive-quarter status	WCA_A2A08	04016	4	N
for Female and age 65-99				
Ŭ				

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 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

CHAITER 7. QUARTERET WORKFORCE INDICA			D: 11	D /
Field name	Data dictionary reference name	Starting position	Field size	Data type
Total payroll of transits to consecutive-quarter status	WCA_A0A01	03924	4	N
for Male and Female and				
Total payroll of transits to consecutive-quarter status	WCA_A0A00	03912	4	N
for Male and Female and				
Total payroll of transits to consecutive-quarter status	WCA_A0A02	03936	4	N
for Male and Female and				
Total payroll of transits to consecutive-quarter status	WCA_A0A03	03948	4	N
for Male and Female and				
Total payroll of transits to consecutive-quarter status	WCA_A0A04	03960	4	N
for Male and Female and				
Total payroll of transits to consecutive-quarter status	WCA_A0A05	03972	4	N
for Male and Female and				
Total payroll of transits to consecutive-quarter status	WCA_A0A06	03984	4	N
for Male and Female and				
Total payroll of transits to consecutive-quarter status	WCA_A0A07	03996	4	N
for Male and Female and				
Total payroll of transits to consecutive-quarter status	WCA_A0A08	04008	4	N
for Male and Female and				
Total payroll of transits to consecutive-quarter status	WCA_A1A01	03928	4	N
for Male and age 14-18				
Total payroll of transits to consecutive-quarter status	WCA_A1A00	03916	4	N
for Male and age 14-99				
Total payroll of transits to consecutive-quarter status	WCA_A1A02	03940	4	N
for Male and age 19-21				
Total payroll of transits to consecutive-quarter status	WCA_A1A03	03952	4	N
for Male and age 22-24				
Total payroll of transits to consecutive-quarter status	WCA_A1A04	03964	4	N
for Male and age 25-34				
Total payroll of transits to consecutive-quarter status	WCA_A1A05	03976	4	N
for Male and age 35-44	*****			
Total payroll of transits to consecutive-quarter status	WCA_A1A06	03988	4	N
for Male and age 45-54	TTT 0 1 1 1 1 0 =	0.4000		3.7
Total payroll of transits to consecutive-quarter status	WCA_A1A07	04000	4	N
for Male and age 55-64	THO A A 1 A OO	0.4010	4	TN T
Total payroll of transits to consecutive-quarter status	WCA_A1A08	04012	4	N
for Male and age 65-99 Total payrell of transits to full quarter status for Fe	WFA_A2A01	04040	4	NT
Total payroll of transits to full-quarter status for Fermals and are 14.18	WFA_AZAU1	04040	4	N
male and age 14-18 Total payroll of transits to full-quarter status for Fe-	WFA_A2A00	04028	4	N
male and age 14-99	WFA_A2A00	04026	4	11
Total payroll of transits to full-quarter status for Fe-	WFA_A2A02	04052	4	N
male and age 19-21	WIA_AZAUZ	04002	4	11
Total payroll of transits to full-quarter status for Fe-	WFA_A2A03	04064	4	N
male and age 22-24	W11121121100	01001		11
Total payroll of transits to full-quarter status for Fe-	WFA_A2A04	04076	4	N
male and age 25-34	VV 1112112110 1	01010	•	11
Total payroll of transits to full-quarter status for Fe-	WFA_A2A05	04088	4	N
male and age 35-44		2 2000	-	± ·
Total payroll of transits to full-quarter status for Fe-	WFA_A2A06	04100	4	N
male and age 45-54				

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Field name			Field	
Field name	Data dictionary reference name	Starting position	size	Data type
Total payroll of transits to full-quarter status for Fe-	WFA_A2A07	04112	4	N
male and age 55-64	VV F71_7127101	04112	4	11
Total payroll of transits to full-quarter status for Fe-	WFA_A2A08	04124	4	N
male and age 65-99				
Total payroll of transits to full-quarter status for Male	WFA_A0A01	04032	4	N
and Female and age 14-				
Total payroll of transits to full-quarter status for Male	WFA_A0A00	04020	4	N
and Female and age 14-				
Total payroll of transits to full-quarter status for Male	WFA_A0A02	04044	4	N
and Female and age 19-				
Total payroll of transits to full-quarter status for Male	WFA_A0A03	04056	4	N
and Female and age 22-				
Total payroll of transits to full-quarter status for Male	WFA_A0A04	04068	4	N
and Female and age 25-				
Total payroll of transits to full-quarter status for Male	WFA_A0A05	04080	4	N
and Female and age 35-				
Total payroll of transits to full-quarter status for Male	WFA_A0A06	04092	4	N
and Female and age 45-				
Total payroll of transits to full-quarter status for Male	WFA_A0A07	04104	4	N
and Female and age 55-				
Total payroll of transits to full-quarter status for Male	WFA_A0A08	04116	4	N
and Female and age 65-				
Total payroll of transits to full-quarter status for Male	WFA_A1A01	04036	4	N
and age 14-18				
Total payroll of transits to full-quarter status for Male	WFA_A1A00	04024	4	N
and age 14-99	TTT-1 11100	0.40.40		3.7
Total payroll of transits to full-quarter status for Male	WFA_A1A02	04048	4	N
and age 19-21	TITTA A 1 A OO	0.4060	4	N.T.
Total payroll of transits to full-quarter status for Male	WFA_A1A03	04060	4	N
and age 22-24	TITTA ATAOA	0.4070	4	TN.T
Total payroll of transits to full-quarter status for Male	WFA_A1A04	04072	4	N
and age 25-34	IIIIA ATAOF	0.400.4	4	TN.T
Total payroll of transits to full-quarter status for Male	WFA_A1A05	04084	4	N
and age 35-44 Total payroll of transits to full-quarter status for Male	WFA_A1A06	04096	4	N
and age 45-54	WFA_ATA00	04090	4	11
Total payroll of transits to full-quarter status for Male	WFA_A1A07	04108	4	N
and age 55-64	WFA_ATAUT	04100	4	11
Total payroll of transits to full-quarter status for Male	WFA_A1A08	04120	4	N
and age 65-99	WIALAIAUO	04120	4	11
Total periods of non-employment for accessions for Fe-	NA_A2A01	04256	4	N
male and age 14-18	11121101	04200	-	11
Total periods of non-employment for accessions for Fe-	NA_A2A00	04244	4	N
male and age 14-99		V	_	
Total periods of non-employment for accessions for Fe-	NA_A2A02	04268	4	N
male and age 19-21	-	\$ <u>-</u> _ \$ 6	_	
Total periods of non-employment for accessions for Fe-	NA_A2A03	04280	4	N
male and age 22-24				
Total periods of non-employment for accessions for Fe-	NA_A2A04	04292	4	N
male and age 25-34				
-				

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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

Field name	Data dictionary	Starting	Field	Data
ried name	reference name	position	size	type
Total periods of non-employment for accessions for Fe-	NA_A2A05	04304	4	N
male and age 35-44				
Total periods of non-employment for accessions for Fe-	NA_A2A06	04316	4	N
male and age 45-54				
Total periods of non-employment for accessions for Fe-	NA_A2A07	04328	4	N
male and age 55-64				
Total periods of non-employment for accessions for Fe-	NA_A2A08	04340	4	N
male and age 65-99				
Total periods of non-employment for accessions for	NA_A0A01	04248	4	N
Male and Female and age 14-18				
Total periods of non-employment for accessions for	NA_A0A00	04236	4	N
Male and Female and age 14-99		0.4000		
Total periods of non-employment for accessions for	NA_A0A02	04260	4	N
Male and Female and age 19-21	374 40400	0.4070		3.7
Total periods of non-employment for accessions for	NA_A0A03	04272	4	N
Male and Female and age 22-24	NIA AOAOA	0.400.4	4	N.T
Total periods of non-employment for accessions for Male and Female and age 25-34	NA_A0A04	04284	4	N
Total periods of non-employment for accessions for	NA_A0A05	04296	4	N
Male and Female and age 35-44	NA_A0A03	04290	4	11
Total periods of non-employment for accessions for	NA_A0A06	04308	4	N
Male and Female and age 45-54	11121101100	04900	-	11
Total periods of non-employment for accessions for	NA_A0A07	04320	4	N
Male and Female and age 55-64	11121101101	01020	1	1,
Total periods of non-employment for accessions for	NA_A0A08	04332	4	N
Male and Female and age 65-99				
Total periods of non-employment for accessions for	NA_A1A01	04252	4	N
Male and age 14-18				
Total periods of non-employment for accessions for	NA_A1A00	04240	4	N
Male and age 14-99				
Total periods of non-employment for accessions for	NA_A1A02	04264	4	N
Male and age 19-21				
Total periods of non-employment for accessions for	NA_A1A03	04276	4	N
Male and age 22-24	371 14101	0.4000	4	3.7
Total periods of non-employment for accessions for	NA_A1A04	04288	4	N
Male and age 25-34	NIA A1AOF	0.4200	4	N.T.
Total periods of non-employment for accessions for	NA_A1A05	04300	4	N
Male and age 35-44	NA_A1A06	04212	4	NT
Total periods of non-employment for accessions for Male and age 45-54	NA_A1A00	04312	4	N
Total periods of non-employment for accessions for	NA_A1A07	04324	4	N
Male and age 55-64	111111111111111111111111111111111111111	04324	4	11
Total periods of non-employment for accessions for	NA_A1A08	04336	4	N
Male and age 65-99	1,112,111100	01333	-	
Total periods of non-employment for new hires (last	NH_A2A01	04364	4	N
four quarters) for Female an				
Total periods of non-employment for new hires (last	NH_A2A00	04352	4	N
four quarters) for Female an				
Total periods of non-employment for new hires (last	NH_A2A02	04376	4	N
four quarters) for Female an				

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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

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Field name	Data dictionary reference name	Starting position	Field size	Data
Total periods of non-employment for new hires (last	NH_A2A03	04388	size 4	type
four quarters) for Female an	NII_AZAUJ	04300	4	11
Total periods of non-employment for new hires (last	NH_A2A04	04400	4	N
four quarters) for Female an	11111111104	04400	-	11
Total periods of non-employment for new hires (last	NH_A2A05	04412	4	N
four quarters) for Female an	111111111111111111111111111111111111111	04412	-	11
Total periods of non-employment for new hires (last	NH_A2A06	04424	4	N
four quarters) for Female an	111111111111111111111111111111111111111	01121	1	11
Total periods of non-employment for new hires (last	NH_A2A07	04436	4	N
four quarters) for Female an	1,112,12	01130	-	
Total periods of non-employment for new hires (last	NH_A2A08	04448	4	N
four quarters) for Female an		0 0	_	
Total periods of non-employment for new hires (last	NH_A0A01	04356	4	N
four quarters) for Male and		0 - 0 0 0		
Total periods of non-employment for new hires (last	NH_A0A00	04344	4	N
four quarters) for Male and		0 -0	_	
Total periods of non-employment for new hires (last	NH_A0A02	04368	4	N
four quarters) for Male and		0 - 0 0 0	_	
Total periods of non-employment for new hires (last	NH_A0A03	04380	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A0A04	04392	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A0A05	04404	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A0A06	04416	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A0A07	04428	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A0A08	04440	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A1A01	04360	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A1A00	04348	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A1A02	04372	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A1A03	04384	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A1A04	04396	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A1A05	04408	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A1A06	04420	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A1A07	04432	4	N
four quarters) for Male and				
Total periods of non-employment for new hires (last	NH_A1A08	04444	4	N
four quarters) for Male and				
Total periods of non-employment for recalls (last four	NR_A2A01	04472	4	N
quarters) for Female and				

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 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name		\ - /	T2: -1.1	Dete
Field name	Data dictionary reference name	Starting position	Field size	Data type
Total periods of non-employment for recalls (last four	NR_A2A00	04460	4	N
quarters) for Female and				
Total periods of non-employment for recalls (last four	NR_A2A02	04484	4	N
quarters) for Female and				
Total periods of non-employment for recalls (last four	NR_A2A03	04496	4	N
quarters) for Female and				
Total periods of non-employment for recalls (last four	NR_A2A04	04508	4	N
quarters) for Female and				
Total periods of non-employment for recalls (last four	NR_A2A05	04520	4	N
quarters) for Female and				
Total periods of non-employment for recalls (last four	NR_A2A06	04532	4	N
quarters) for Female and				
Total periods of non-employment for recalls (last four	NR_A2A07	04544	4	N
quarters) for Female and				
Total periods of non-employment for recalls (last four	NR_A2A08	04556	4	N
quarters) for Female and				
Total periods of non-employment for recalls (last four	NRA0A01	04464	4	N
quarters) for Male and Fe				
Total periods of non-employment for recalls (last four	NR_A0A00	04452	4	N
quarters) for Male and Fe				
Total periods of non-employment for recalls (last four	NR_A0A02	04476	4	N
quarters) for Male and Fe				
Total periods of non-employment for recalls (last four	NR_A0A03	04488	4	N
quarters) for Male and Fe				
Total periods of non-employment for recalls (last four	NR_A0A04	04500	4	N
quarters) for Male and Fe				
Total periods of non-employment for recalls (last four	NR_A0A05	04512	4	N
quarters) for Male and Fe	1775 A 0 A 0 0			
Total periods of non-employment for recalls (last four	NR_A0A06	04524	4	N
quarters) for Male and Fe	NTD 4040=	0.4500		3.7
Total periods of non-employment for recalls (last four	NR_A0A07	04536	4	N
quarters) for Male and Fe	NID AOAOO	0.45.40	4	N. T
Total periods of non-employment for recalls (last four	NR_A0A08	04548	4	N
quarters) for Male and Fe	ND 41401	0.4.4.6.0	4	ΝT
Total periods of non-employment for recalls (last four	NR_A1A01	04468	4	N
quarters) for Male and ag	ND 41400	04456	4	NT
Total periods of non-employment for recalls (last four	NR_A1A00	04456	4	N
quarters) for Male and ag	ND 41409	04490	4	NT
Total periods of non-employment for recalls (last four quarters) for Male and ag	NR_A1A02	04480	4	N
Total periods of non-employment for recalls (last four	NR_A1A03	04492	4	N
quarters) for Male and ag	Nn_A1A03	04492	4	11
Total periods of non-employment for recalls (last four	NR_A1A04	04504	4	N
quarters) for Male and ag	MILAIAU4	04504	4	11
Total periods of non-employment for recalls (last four	NR_A1A05	04516	4	N
quarters) for Male and ag	1110_1111100	04010	4	11
Total periods of non-employment for recalls (last four	NR_A1A06	04528	4	N
quarters) for Male and ag	1110-1111100	04020	T	11
Total periods of non-employment for recalls (last four	NR_A1A07	04540	4	N
quarters) for Male and ag		01010	•	Ι,
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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

Field name		Starting		Data
Field name	Data dictionary reference name	Starting position	Field size	type
Total periods of non-employment for recalls (last four	NR_A1A08	04552	4	N
quarters) for Male and ag	1110_1111100	01002	1	11
Total periods of non-employment for separations for	NS_A2A01	05012	4	N
Female and age 14-18		000	_	
Total periods of non-employment for separations for	NS_A2A00	05000	4	N
Female and age 14-99				
Total periods of non-employment for separations for	NS_A2A02	05024	4	N
Female and age 19-21				
Total periods of non-employment for separations for	NS_A2A03	05036	4	N
Female and age 22-24				
Total periods of non-employment for separations for	NS_A2A04	05048	4	N
Female and age 25-34				
Total periods of non-employment for separations for	NS_A2A05	05060	4	N
Female and age 35-44				
Total periods of non-employment for separations for	NS_A2A06	05072	4	N
Female and age 45-54				
Total periods of non-employment for separations for	NS_A2A07	05084	4	N
Female and age 55-64				
Total periods of non-employment for separations for	NS_A2A08	05096	4	N
Female and age 65-99				
Total periods of non-employment for separations for	NS_A0A01	05004	4	N
Male and Female and age 14-1				
Total periods of non-employment for separations for	NS_A0A00	04992	4	N
Male and Female and age 14-9				
Total periods of non-employment for separations for	NS_A0A02	05016	4	N
Male and Female and age 19-2				
Total periods of non-employment for separations for	NS_A0A03	05028	4	N
Male and Female and age 22-2				
Total periods of non-employment for separations for	NS_A0A04	05040	4	N
Male and Female and age 25-3				
Total periods of non-employment for separations for	NS_A0A05	05052	4	N
Male and Female and age 35-4				
Total periods of non-employment for separations for	NS_A0A06	05064	4	N
Male and Female and age 45-5				
Total periods of non-employment for separations for	NS_A0A07	05076	4	N
Male and Female and age 55-6				
Total periods of non-employment for separations for	NS_A0A08	05088	4	N
Male and Female and age 65-9				
Total periods of non-employment for separations for	NS_A1A01	05008	4	N
Male and age 14-18				
Total periods of non-employment for separations for	NS_A1A00	04996	4	\mathbf{N}
Male and age 14-99				
Total periods of non-employment for separations for	NS_A1A02	05020	4	N
Male and age 19-21				
Total periods of non-employment for separations for	NS_A1A03	05032	4	N
Male and age 22-24				
Total periods of non-employment for separations for	NS_A1A04	05044	4	N
Male and age 25-34				
Total periods of non-employment for separations for	NS_A1A05	05056	4	N
Male and age 35-44				

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Field name	Data dictionary	Starting	Field	Data
rieid name	reference name	position	size	type
Total periods of non-employment for separations for	NS_A1A06	05068	4	N
Male and age 45-54				
Total periods of non-employment for separations for	NS_A1A07	05080	4	N
Male and age 55-64				
Total periods of non-employment for separations for	NS_A1A08	05092	4	N
Male and age 65-99				
WIB code, wwwwww	LEG_WIB	07519	6	A/N
Weight such that weighted sum of B_UI =	QWI_UNIT_WEIGHT	00000	8	N
$sum(month1_BLS)$				
Year YYYY	YEAR	07534	3	N
lnwb*lnwb for Female and age 14-18	$LNWB2_A2A01$	05660	4	N
lnwb*lnwb for Female and age 14-99	$LNWB2_A2A00$	05648	4	N
lnwb*lnwb for Female and age 19-21	$LNWB2_A2A02$	05672	4	N
lnwb*lnwb for Female and age 22-24	$LNWB2_A2A03$	05684	4	N
lnwb*lnwb for Female and age 25-34	$LNWB2_A2A04$	05696	4	N
lnwb*lnwb for Female and age 35-44	$LNWB2_A2A05$	05708	4	N
lnwb*lnwb for Female and age 45-54	$LNWB2_A2A06$	05720	4	N
lnwb*lnwb for Female and age 55-64	$LNWB2_A2A07$	05732	4	N
lnwb*lnwb for Female and age 65-99	$LNWB2_A2A08$	05744	4	N
lnwb*lnwb for Male and Female and age 14-18	$LNWB2_A0A01$	05652	4	N
lnwb*lnwb for Male and Female and age 14-99	$LNWB2_A0A00$	05640	4	N
lnwb*lnwb for Male and Female and age 19-21	$LNWB2_A0A02$	05664	4	N
lnwb*lnwb for Male and Female and age 22-24	$LNWB2_A0A03$	05676	4	N
lnwb*lnwb for Male and Female and age 25-34	$LNWB2_A0A04$	05688	4	N
lnwb*lnwb for Male and Female and age 35-44	$LNWB2_A0A05$	05700	4	N
lnwb*lnwb for Male and Female and age 45-54	LNWB2_A0A06	05712	4	N
lnwb*lnwb for Male and Female and age 55-64	$LNWB2_A0A07$	05724	4	N
lnwb*lnwb for Male and Female and age 65-99	LNWB2_A0A08	05736	4	N
lnwb*lnwb for Male and age 14-18	LNWB2_A1A01	05656	4	N
lnwb*lnwb for Male and age 14-99	LNWB2_A1A00	05644	4	N
lnwb*lnwb for Male and age 19-21	LNWB2_A1A02	05668	4	N
lnwb*lnwb for Male and age 22-24	LNWB2_A1A03	05680	4	N
lnwb*lnwb for Male and age 25-34	LNWB2_A1A04	05692	4	N
lnwb*lnwb for Male and age 35-44	LNWB2_A1A05	05704	4	N
lnwb*lnwb for Male and age 45-54	LNWB2_A1A06	05716	4	N
lnwb*lnwb for Male and age 55-64	LNWB2_A1A07	05728	4	N
lnwb*lnwb for Male and age 65-99	LNWB2_A1A08	05740	4	N
lnwb*lnwblg for Female and age 14-18	LNWB_LNWBLG_A2A01	05768	4	N
lnwb*lnwblg for Female and age 14-99	LNWB_LNWBLG_A2A00	05756	4	N
lnwb*lnwblg for Female and age 19-21	LNWB_LNWBLG_A2A02	05780	4	N
lnwb*lnwblg for Female and age 22-24	LNWB_LNWBLG_A2A03	05792	4	N
lnwb*lnwblg for Female and age 25-34	LNWB_LNWBLG_A2A04	05804	4	N
lnwb*lnwblg for Female and age 35-44	LNWB_LNWBLG_A2A05	05816	4	N
lnwb*lnwblg for Female and age 45-54	LNWB_LNWBLG_A2A06	$05828 \\ 05840$	4	N
lnwb*lnwblg for Female and age 55-64	LNWB_LNWBLG_A2A07		4	N
lnwb*lnwblg for Female and age 65-99 lnwb*lnwblg for Male and Female and age 14-18	LNWB_LNWBLG_A2A08	$05852 \\ 05760$	$\frac{4}{4}$	N N
lnwb*lnwblg for Male and Female and age 14-18	LNWB_LNWBLG_A0A01 LNWB_LNWBLG_A0A00	05748	4	N N
lnwb*lnwblg for Male and Female and age 14-99	LNWB_LNWBLG_A0A00	$05748 \\ 05772$	4	N N
lnwb*lnwblg for Male and Female and age 19-21 lnwb*lnwblg for Male and Female and age 22-24	LNWB_LNWBLG_A0A03	05772 05784	4	N N
mwo mwois for water and remain and age 22-24	P14 A D = P14 A D PQ = 1701700	00104	4	11

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Field name	Data dictionary	Starting	Field	Data
rieid name	reference name	position	size	type
lnwb*lnwblg for Male and Female and age 25-34	LNWB_LNWBLG_A0A04	05796	4	N
lnwb*lnwblg for Male and Female and age 35-44	LNWB_LNWBLG_A0A05	05808	4	N
lnwb*lnwblg for Male and Female and age 45-54	LNWB_LNWBLG_A0A06	05820	4	N
lnwb*lnwblg for Male and Female and age 55-64	LNWB_LNWBLG_A0A07	05832	4	N
lnwb*lnwblg for Male and Female and age 65-99	LNWB_LNWBLG_A0A08	05844	4	N
lnwb*lnwblg for Male and age 14-18	LNWB_LNWBLG_A1A01	05764	4	N
lnwb*lnwblg for Male and age 14-99	LNWB_LNWBLG_A1A00	05754	4	N
lnwb*lnwblg for Male and age 19-21	LNWB_LNWBLG_A1A02	05776	4	N
lnwb*lnwblg for Male and age 22-24	LNWB_LNWBLG_A1A03	05788	4	N
lnwb*lnwblg for Male and age 25-34	LNWB_LNWBLG_A1A04	05800	4	N
lnwb*lnwblg for Male and age 35-44	LNWB_LNWBLG_A1A05	05812	4	N
lnwb*lnwblg for Male and age 45-54	LNWB_LNWBLG_A1A06	05824	4	N
lnwb*lnwblg for Male and age 55-64	LNWB_LNWBLG_A1A07	05836	4	N
lnwb*lnwblg for Male and age 65-99	LNWB_LNWBLG_A1A08	05848	4	N
lnwblg*lnwblg for Female and age 14-18	LNWBLG2_A2A01	05876	4	N
lnwblg*lnwblg for Female and age 14-19	LNWBLG2_A2A00	05864	4	N
lnwblg*lnwblg for Female and age 19-21	LNWBLG2_A2A02	05888	4	N
lnwblg*lnwblg for Female and age 22-24	LNWBLG2_A2A03	05900	4	N
lnwblg*lnwblg for Female and age 25-34	LNWBLG2_A2A04	05912	4	N
lnwblg*lnwblg for Female and age 35-44	LNWBLG2_A2A05	05924	4	N
lnwblg*lnwblg for Female and age 45-54	LNWBLG2_A2A06	05936	4	N
lnwblg*lnwblg for Female and age 55-64	LNWBLG2_A2A07	05948	4	N
lnwblg*lnwblg for Female and age 65-99	LNWBLG2_A2A08	05960	4	N
lnwblg*lnwblg for Male and Female and age 14-18	LNWBLG2_A0A01	05868	4	N
lnwblg*lnwblg for Male and Female and age 14-19	LNWBLG2_A0A00	05856	4	N
lnwblg*lnwblg for Male and Female and age 19-21	LNWBLG2_A0A02	05880	4	N
lnwblg*lnwblg for Male and Female and age 22-24	LNWBLG2_A0A03	05892	4	N
lnwblg*lnwblg for Male and Female and age 25-34	LNWBLG2_A0A04	05904	4	N
lnwblg*lnwblg for Male and Female and age 35-44	LNWBLG2_A0A05	05916	4	N
lnwblg*lnwblg for Male and Female and age 45-54	LNWBLG2_A0A06	05928	4	N
lnwblg*lnwblg for Male and Female and age 55-64	LNWBLG2_A0A07	05940	4	N
lnwblg*lnwblg for Male and Female and age 65-99	LNWBLG2_A0A08	05952	4	N
lnwblg*lnwblg for Male and age 14-18	LNWBLG2_A1A01	05872	4	N
lnwblg*lnwblg for Male and age 14-99	LNWBLG2_A1A00	05860	$\stackrel{1}{4}$	N
lnwblg*lnwblg for Male and age 19-21	LNWBLG2_A1A02	05884	4	N
lnwblg*lnwblg for Male and age 22-24	LNWBLG2_A1A03	05896	$\overline{4}$	N
lnwblg*lnwblg for Male and age 25-34	LNWBLG2_A1A04	05908	$\overline{4}$	N
lnwblg*lnwblg for Male and age 35-44	LNWBLG2_A1A05	05920	4	N
lnwblg*lnwblg for Male and age 45-54	LNWBLG2_A1A06	05932	4	N
lnwblg*lnwblg for Male and age 55-64	LNWBLG2_A1A07	05944	4	N
lnwblg*lnwblg for Male and age 65-99	LNWBLG2_A1A08	05956	$\overline{4}$	N
lnwe*lnwe for Female and age 14-18	LNWE2_A2A01	06200	4	N
lnwe*lnwe for Female and age 14-99	LNWE2_A2A00	06188	4	N
lnwe*lnwe for Female and age 19-21	LNWE2_A2A02	06212	4	N
lnwe*lnwe for Female and age 22-24	LNWE2_A2A03	06224	4	N
lnwe*lnwe for Female and age 25-34	$LNWE2_A2A04$	06236	$\overline{4}$	N
lnwe*lnwe for Female and age 35-44	LNWE2_A2A05	06248	4	N
lnwe*lnwe for Female and age 45-54	LNWE2_A2A06	06260	4	N
lnwe*lnwe for Female and age 55-64	LNWE2_A2A07	06272	4	N
lnwe*lnwe for Female and age 65-99	LNWE2_A2A08	06284	4	N
		30201	-	

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 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

CHAITER 7. QUARTERET WORKFORCE INDICA	,	· · · · · · · · · · · · · · · · · · ·	D: 11	D .
Field name	Data dictionary reference name	Starting position	Field size	Data
lawe*lawe for Mole and Female and age 14.19	LNWE2_A0A01	06192	size 4	type N
lnwe*lnwe for Male and Female and age 14-18				
lnwe*lnwe for Male and Female and age 14-99	LNWE2_A0A00	06180	4	N
lnwe*lnwe for Male and Female and age 19-21	LNWE2_A0A02	06204	4	N
lnwe*lnwe for Male and Female and age 22-24	LNWE2_A0A03	06216	4	N
lnwe*lnwe for Male and Female and age 25-34	LNWE2_A0A04	06228	4	N
lnwe*lnwe for Male and Female and age 35-44	LNWE2_A0A05	06240	4	N
lnwe*lnwe for Male and Female and age 45-54	$LNWE2_A0A06$	06252	4	N
lnwe*lnwe for Male and Female and age 55-64	$LNWE2_A0A07$	06264	4	N
lnwe*lnwe for Male and Female and age 65-99	$LNWE2_A0A08$	06276	4	N
lnwe*lnwe for Male and age 14-18	$LNWE2_A1A01$	06196	4	N
lnwe*lnwe for Male and age 14-99	$LNWE2_A1A00$	06184	4	N
lnwe*lnwe for Male and age 19-21	$LNWE2_A1A02$	06208	4	\mathbf{N}
lnwe*lnwe for Male and age 22-24	$LNWE2_A1A03$	06220	4	\mathbf{N}
lnwe*lnwe for Male and age 25-34	$LNWE2_A1A04$	06232	4	N
lnwe*lnwe for Male and age 35-44	$LNWE2_A1A05$	06244	4	N
lnwe*lnwe for Male and age 45-54	$LNWE2_A1A06$	06256	4	N
lnwe*lnwe for Male and age 55-64	$LNWE2_A1A07$	06268	$_4$	N
lnwe*lnwe for Male and age 65-99	$LNWE2_A1A08$	06280	$_4$	N
lnwe*lnweld for Female and age 14-18	LNWE_LNWELD_A2A01	06308	4	N
lnwe*lnweld for Female and age 14-99	LNWE_LNWELD_A2A00	06296	4	N
lnwe*lnweld for Female and age 19-21	LNWE_LNWELD_A2A02	06320	4	N
lnwe*lnweld for Female and age 22-24	LNWE_LNWELD_A2A03	06332	4	N
lnwe*lnweld for Female and age 25-34	LNWE_LNWELD_A2A04	06344	4	N
lnwe*lnweld for Female and age 35-44	LNWE_LNWELD_A2A05	06356	$\overline{4}$	N
lnwe*lnweld for Female and age 45-54	LNWE_LNWELD_A2A06	06368	$\overline{4}$	N
lnwe*lnweld for Female and age 55-64	LNWE_LNWELD_A2A07	06380	4	N
lnwe*lnweld for Female and age 65-99	LNWE_LNWELD_A2A08	06392	4	N
lnwe*lnweld for Male and Female and age 14-18	LNWE_LNWELD_A0A01	06300	4	N
lnwe*lnweld for Male and Female and age 14-99	LNWE_LNWELD_A0A00	06288	4	N
lnwe*lnweld for Male and Female and age 19-21	LNWE_LNWELD_A0A02	06312	4	N
lnwe*lnweld for Male and Female and age 22-24	LNWE_LNWELD_A0A03	06324	4	N
lnwe*lnweld for Male and Female and age 25-34	LNWE_LNWELD_A0A04	06336	4	N
lnwe*lnweld for Male and Female and age 35-44	LNWE_LNWELD_A0A05	06348	4	N
lnwe*lnweld for Male and Female and age 45-54	LNWE_LNWELD_A0A06	06360	4	N
lnwe*lnweld for Male and Female and age 55-64	LNWE_LNWELD_A0A07	06372	4	N
lnwe*lnweld for Male and Female and age 65-99	LNWE_LNWELD_AOA08	06384	4	N
lnwe*lnweld for Male and age 14-18	LNWE_LNWELD_A1A01	06304	4	N
lnwe*lnweld for Male and age 14-18	LNWE_LNWELD_A1A01	06304 06292	4	N
lnwe*lnweld for Male and age 14-99	LNWE_LNWELD_A1A00	06316		N
lnwe*lnweld for Male and age 19-21	LNWE_LNWELD_A1A02	06310 06328	4	
g .			4	N
lnwe*lnweld for Male and age 25-34	LNWE_LNWELD_A1A04	06340	4	N
lnwe*lnweld for Male and age 35-44	LNWE_LNWELD_A1A05	06352	4	N
lnwe*lnweld for Male and age 45-54	LNWE_LNWELD_A1A06	06364	4	N
lnwe*lnweld for Male and age 55-64	LNWE_LNWELD_A1A07	06376	4	N
lnwe*lnweld for Male and age 65-99	LNWE_LNWELD_A1A08	06388	4	N
lnweld*Inweld for Female and age 14-18	LNWELD2_A2A01	06416	4	N
lnweld*lnweld for Female and age 14-99	LNWELD2_A2A00	06404	4	N
lnweld*lnweld for Female and age 19-21	LNWELD2_A2A02	06428	4	N
lnweld*lnweld for Female and age 22-24	LNWELD2_A2A03	06440	4	N
lnweld*Inweld for Female and age 25-34	$LNWELD2_A2A04$	06452	4	N

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 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
rieid name	reference name	position	size	type
lnweld*lnweld for Female and age 35-44	LNWELD2_A2A05	06464	4	N
lnweld*lnweld for Female and age 45-54	LNWELD2_A2A06	06476	4	N
lnweld*lnweld for Female and age 55-64	LNWELD2_A2A07	06488	4	N
lnweld*lnweld for Female and age 65-99	LNWELD2_A2A08	06500	4	N
lnweld*lnweld for Male and Female and age 14-18	LNWELD2_A0A01	06408	4	N
lnweld*lnweld for Male and Female and age 14-99	LNWELD2_A0A00	06396	4	N
lnweld*lnweld for Male and Female and age 19-21	LNWELD2_A0A02	06420	4	N
lnweld*lnweld for Male and Female and age 22-24	LNWELD2_A0A03	06432	4	N
lnweld*lnweld for Male and Female and age 25-34	LNWELD2_A0A04	06444	4	N
lnweld*lnweld for Male and Female and age 35-44	LNWELD2_A0A05	06456	4	N
lnweld*lnweld for Male and Female and age 45-54	LNWELD2_A0A06	06468	4	N
lnweld*lnweld for Male and Female and age 55-64	LNWELD2_A0A07	06480	4	N
lnweld*lnweld for Male and Female and age 65-99	LNWELD2_A0A08	06492	4	N
lnweld*lnweld for Male and age 14-18	LNWELD2_A1A01	06412	4	N
lnweld*lnweld for Male and age 14-99	LNWELD2_A1A00	06400	4	N
lnweld*lnweld for Male and age 19-21	LNWELD2_A1A02	06424	4	N
lnweld*Inweld for Male and age 22-24	LNWELD2_A1A03	06436	4	N
lnweld*lnweld for Male and age 25-34	LNWELD2_A1A04	06448	4	N
lnweld*lnweld for Male and age 35-44	LNWELD2_A1A05	06460	4	N
lnweld*lnweld for Male and age 45-54	LNWELD2_A1A06	06472	4	N
lnweld*lnweld for Male and age 55-64	LNWELD2_A1A07	06484	4	N
lnweld*Inweld for Male and age 65-99	LNWELD2_A1A08	06496	4	N
lnwf*lnwf for Female and age 14-18	LNWF2_A2A01	06848	4	N
lnwf*lnwf for Female and age 14-19	LNWF2_A2A00	06836	4	N
lnwf*lnwf for Female and age 19-21	LNWF2_A2A02	06860	4	N
lnwf*lnwf for Female and age 22-24	LNWF2_A2A03	06872	4	N
lnwf*lnwf for Female and age 25-34	LNWF2_A2A04	06884	4	N
lnwf*lnwf for Female and age 35-44	LNWF2_A2A05	06896	4	N
lnwf*lnwf for Female and age 45-54	LNWF2_A2A06	06908	4	N
lnwf*lnwf for Female and age 55-64	LNWF2_A2A07	06920	4	N
lnwf*lnwf for Female and age 65-99	LNWF2_A2A08	06932	4	N
lnwf*lnwf for Male and Female and age 14-18	LNWF2_A0A01	06840	4	N
lnwf*lnwf for Male and Female and age 14-99	LNWF2_A0A00	06828	4	N
lnwf*lnwf for Male and Female and age 19-21	LNWF2_A0A02	06852	4	N
lnwf*lnwf for Male and Female and age 22-24	LNWF2_A0A03	06864	4	N
lnwf*lnwf for Male and Female and age 25-34	LNWF2_A0A04	06876	4	N
lnwf*lnwf for Male and Female and age 35-44	LNWF2_A0A05	06888	4	N
lnwf*lnwf for Male and Female and age 45-54	LNWF2_A0A06	06900	4	N
lnwf*lnwf for Male and Female and age 55-64	LNWF2_A0A07	06912	4	N
lnwf*lnwf for Male and Female and age 65-99	LNWF2_A0A08	06924	4	N
lnwf*lnwf for Male and age 14-18	LNWF2_A1A01	06844	4	N
lnwf*lnwf for Male and age 14-19	LNWF2_A1A00	06832	4	N
lnwf*lnwf for Male and age 19-21	LNWF2_A1A02	06856	4	N
lnwf*lnwf for Male and age 22-24	LNWF2_A1A03	06868	4	N
lnwf*lnwf for Male and age 25-34	LNWF2_A1A04	06880	4	N
lnwf*lnwf for Male and age 25-34	LNWF2_A1A04 LNWF2_A1A05	06892	4	N
lnwf*lnwf for Male and age 45-54	LNWF2_A1A05 LNWF2_A1A06	06904	4	N
lnwf*lnwf for Male and age 55-64	LNWF2_A1A00 LNWF2_A1A07	06916	4	N
lnwf*lnwf for Male and age 65-99	LNWF2_A1A07 LNWF2_A1A08	06916	$\frac{4}{4}$	N
lnwf*lnwfld for Female and age 14-18	LNWF_LNWFLD_A2A01	00928 07172	$\frac{4}{4}$	N
mwi mwiid ioi remaie and age 17-10	DIV VV F _DIV VV F DD_11211U1	01112	4	11

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Fight name	`	- /	T2: -1.1	Data
Field name	Data dictionary reference name	Starting position	Field size	Data type
lowf*lowfd for Formals and age 14.00	LNWF_LNWFLD_A2A00	07160	4	N
lnwf*lnwfld for Female and age 14-99				
lnwf*lnwfld for Female and age 19-21	LNWF_LNWFLD_A2A02	07184	4	N
lnwf*lnwfld for Female and age 22-24	LNWF_LNWFLD_A2A03	07196	4	N
lnwf*lnwfld for Female and age 25-34	LNWF_LNWFLD_A2A04	07208	4	N
lnwf*lnwfld for Female and age 35-44	LNWF_LNWFLD_A2A05	07220	4	N
lnwf*lnwfld for Female and age 45-54	LNWF_LNWFLD_A2A06	07232	4	N
lnwf*lnwfld for Female and age 55-64	LNWF_LNWFLD_A2A07	07244	4	N
lnwf*lnwfld for Female and age 65-99	LNWF_LNWFLD_A2A08	07256	4	N
lnwf*lnwfld for Male and Female and age $14-18$	LNWF_LNWFLD_A0A01	07164	4	N
lnwf*lnwfld for Male and Female and age 14-99	LNWF_LNWFLD_A0A00	07152	4	N
lnwf*lnwfld for Male and Female and age 19-21	LNWF_LNWFLD_A0A02	07176	4	N
lnwf*lnwfld for Male and Female and age 22-24	LNWF_LNWFLD_A0A03	07188	4	\mathbf{N}
lnwf*lnwfld for Male and Female and age 25-34	LNWF_LNWFLD_A0A04	07200	4	N
lnwf*lnwfld for Male and Female and age 35-44	LNWF_LNWFLD_A0A05	07212	4	N
lnwf*lnwfld for Male and Female and age 45-54	LNWF_LNWFLD_A0A06	07224	$_4$	N
lnwf*lnwfld for Male and Female and age 55-64	LNWF_LNWFLD_A0A07	07236	4	\mathbf{N}
lnwf*lnwfld for Male and Female and age 65-99	LNWF_LNWFLD_A0A08	07248	4	\mathbf{N}
lnwf*lnwfld for Male and age 14-18	LNWF_LNWFLD_A1A01	07168	4	N
lnwf*lnwfld for Male and age 14-99	LNWF_LNWFLD_A1A00	07156	4	N
lnwf*lnwfld for Male and age 19-21	LNWF_LNWFLD_A1A02	07180	4	N
lnwf*lnwfld for Male and age 22-24	LNWF_LNWFLD_A1A03	07192	4	N
lnwf*lnwfld for Male and age 25-34	LNWF_LNWFLD_A1A04	07204	4	N
lnwf*lnwfld for Male and age 35-44	LNWF_LNWFLD_A1A05	07216	4	N
lnwf*lnwfld for Male and age 45-54	LNWF_LNWFLD_A1A06	07228	4	N
lnwf*lnwfld for Male and age 55-64	LNWF_LNWFLD_A1A07	07240	4	N
lnwf*lnwfld for Male and age 65-99	LNWF_LNWFLD_A1A08	07240 07252	4	N
lnwf*lnwflg for Female and age 14-18	LNWF_LNWFLG_A2A01	07280	4	N
	LNWF_LNWFLG_A2A01	07268	4	N
lnwf*lnwflg for Female and age 14-99		07208		N
lnwf*lnwflg for Female and age 19-21	LNWF_LNWFLG_A2A02		4	
lnwf*lnwflg for Female and age 22-24	LNWF_LNWFLG_A2A03	07304	4	N
lnwf*lnwflg for Female and age 25-34	LNWF_LNWFLG_A2A04	07316	4	N
lnwf*lnwflg for Female and age 35-44	LNWF_LNWFLG_A2A05	07328	4	N
lnwf*lnwflg for Female and age 45-54	LNWF_LNWFLG_A2A06	07340	4	N
lnwf*lnwflg for Female and age 55-64	LNWF_LNWFLG_A2A07	07352	4	N
lnwf*lnwflg for Female and age 65-99	LNWF_LNWFLG_A2A08	07364	4	N
lnwf*lnwflg for Male and Female and age 14-18	LNWF_LNWFLG_A0A01	07272	4	N
lnwf*lnwflg for Male and Female and age 14-99	LNWF_LNWFLG_A0A00	07260	4	N
lnwf*lnwflg for Male and Female and age 19-21	LNWF_LNWFLG_A0A02	07284	4	N
lnwf*lnwflg for Male and Female and age 22-24	LNWF_LNWFLG_A0A03	07296	4	N
lnwf*lnwflg for Male and Female and age 25-34	LNWF_LNWFLG_A0A04	07308	4	N
lnwf*lnwflg for Male and Female and age 35-44	LNWF_LNWFLG_A0A05	07320	4	N
lnwf*lnwflg for Male and Female and age 45-54	LNWF_LNWFLG_A0A06	07332	4	N
lnwf*lnwflg for Male and Female and age 55-64	LNWF_LNWFLG_A0A07	07344	4	N
lnwf*lnwflg for Male and Female and age 65-99	LNWF_LNWFLG_A0A08	07356	4	N
lnwf*lnwflg for Male and age 14-18	LNWF_LNWFLG_A1A01	07276	4	N
lnwf*lnwflg for Male and age 14-99	LNWF_LNWFLG_A1A00	07264	4	N
lnwf*lnwflg for Male and age 19-21	LNWF_LNWFLG_A1A02	07288	4	N
lnwf*lnwflg for Male and age 22-24	LNWF_LNWFLG_A1A03	07300	4	N
lnwf*lnwflg for Male and age 25-34	LNWF_LNWFLG_A1A04	07312	4	N
lnwf*lnwflg for Male and age 35-44	LNWF_LNWFLG_A1A05	07324	4	N

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Field name			Field	Data
rieid name	Data dictionary reference name	Starting position	size	
lnwf*lnwflg for Male and age 45-54	LNWF_LNWFLG_A1A06	07336	size 4	type
lnwf*lnwflg for Male and age 55-64	LNWF_LNWFLG_A1A00	07348	4	N
lnwf*lnwflg for Male and age 65-99	LNWF_LNWFLG_A1A07	07340	4	N
lnwfld*lnwfld for Female and age 14-18	LNWFLD2_A2A01	06956	4	N
lnwfld*lnwfld for Female and age 14-99	LNWFLD2_A2A01 LNWFLD2_A2A00	06944	4	N
lnwfld*lnwfld for Female and age 19-21	$LNWFLD2_A2A00$ $LNWFLD2_A2A02$	06968	4	N
lnwfld*lnwfld for Female and age 22-24	LNWFLD2_A2A02	06980	4	N
lnwfld*lnwfld for Female and age 25-34	$LNWFLD2_A2A03$ $LNWFLD2_A2A04$	06992	4	N
lnwfld*lnwfld for Female and age 35-44	$LNWFLD2_A2A04$ $LNWFLD2_A2A05$	07004	4	N
lnwfld*lnwfld for Female and age 45-54	LNWFLD2_A2A06	07004	4	N
lnwfld*lnwfld for Female and age 55-64	$LNWFLD2_A2A00$ $LNWFLD2_A2A07$	07010	4	N
lnwfld*lnwfld for Female and age 65-99	LNWFLD2_A2A07 LNWFLD2_A2A08	07040	4	N
lnwfld*lnwfld for Male and Female and age 14-18	LNWFLD2_A2A08 LNWFLD2_A0A01	06948	4	N
lnwfld*lnwfld for Male and Female and age 14-18	LNWFLD2_A0A01 LNWFLD2_A0A00	06936	4	N
lnwfld*lnwfld for Male and Female and age 14-99	LNWFLD2_A0A00 LNWFLD2_A0A02	06960	4	N
lnwfld*lnwfld for Male and Female and age 19-21	LNWFLD2_A0A02	06972	4	N
lnwfld*lnwfld for Male and Female and age 25-34	LNWFLD2_A0A03	06984	4	N
lnwfld*lnwfld for Male and Female and age 25-34	LNWFLD2_A0A04 LNWFLD2_A0A05	06996	4	N
lnwfld*lnwfld for Male and Female and age 45-54	LNWFLD2_A0A05	07008	4	N
lnwfld*lnwfld for Male and Female and age 55-64	LNWFLD2_A0A00	07003	4	N
lnwfld*lnwfld for Male and Female and age 65-99	LNWFLD2_A0A07 LNWFLD2_A0A08	07020	4	N
lnwfld*lnwfld for Male and age 14-18	LNWFLD2_A1A01	07032 06952	4	N
~	LNWFLD2_A1A01 LNWFLD2_A1A00	06940		N N
lnwfld*lnwfld for Male and age 14-99	LNWFLD2_A1A00 LNWFLD2_A1A02	06940	4	N N
lnwfld*lnwfld for Male and age 19-21			4	
lnwfld*lnwfld for Male and age 22-24	LNWFLD2_A1A03	06976	4	N N
lnwfld*lnwfld for Male and age 25-34	LNWFLD2_A1A04	06988	4	N N
lnwfld*lnwfld for Male and age 35-44	LNWFLD2_A1A05	07000	4	N N
lnwfld*lnwfld for Male and age 45-54	LNWFLD2_A1A06	$07012 \\ 07024$	4	N N
lnwfld*lnwfld for Male and age 55-64	LNWFLD2_A1A07		4	
lnwfld*lnwfld for Male and age 65-99	LNWFLD2_A1A08	07036	4	N
lnwfld*lnwflg for Female and age 14-18	LNWFLD_LNWFLG_A2A01	07388	4	N
lnwfld*lnwflg for Female and age 14-99	LNWFLD_LNWFLG_A2A00	07376	4	N
lnwfld*lnwflg for Female and age 19-21	LNWFLD_LNWFLG_A2A02	07400	4	N
lnwfld*lnwflg for Female and age 22-24	LNWFLD_LNWFLG_A2A03	07412	4	N
lnwfld*lnwflg for Female and age 25-34	LNWFLD_LNWFLG_A2A04	07424	4	N
lnwfld*lnwflg for Female and age 35-44	LNWFLD_LNWFLG_A2A05	07436	4	N
lnwfld*lnwflg for Female and age 45-54	LNWFLD_LNWFLG_A2A06	07448	4	N
lnwfld*lnwflg for Female and age 55-64	LNWFLD_LNWFLG_A2A07	07460	4	N
lnwfld*lnwflg for Female and age 65-99	LNWFLD_LNWFLG_A2A08	07472	4	N
lnwfld*lnwflg for Male and Female and age 14-18	LNWFLD_LNWFLG_A0A01	07380	4	N
lnwfld*lnwflg for Male and Female and age 14-99	LNWFLD_LNWFLG_A0A00	07368	4	N
lnwfld*lnwflg for Male and Female and age 19-21	LNWFLD_LNWFLG_A0A02	07392	4	N
lnwfld*lnwflg for Male and Female and age 22-24	LNWFLD_LNWFLG_A0A03	07404	4	N
lnwfld*lnwflg for Male and Female and age 25-34	LNWFLD_LNWFLG_A0A04	07416	4	N
lnwfld*lnwflg for Male and Female and age 35-44	LNWFLD_LNWFLG_A0A05	07428	4	N
lnwfld*lnwflg for Male and Female and age 45-54	LNWFLD_LNWFLG_A0A06	07440	4	N
lnwfld*lnwflg for Male and Female and age 55-64	LNWFLD_LNWFLG_A0A07	07452	4	N
lnwfld*lnwflg for Male and Female and age 65-99	LNWFLD_LNWFLG_A0A08	07464	4	N
lnwfld*lnwflg for Male and age 14-18	LNWFLD_LNWFLG_A1A01	07384	4	N
lnwfld*lnwflg for Male and age 14-99	LNWFLD_LNWFLG_A1A00	07372	4	N

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 $CHAPTER\ 7.\ \ QUARTERLY\ WORKFORCE\ INDICATORS\ -\ SEINUNIT\ FILE\ (QWI)$

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
lnwfld*lnwflg for Male and age 19-21	LNWFLD_LNWFLG_A1A02	07396	4	N
lnwfld*lnwflg for Male and age 22-24	LNWFLD_LNWFLG_A1A03	07408	4	N
lnwfld*lnwflg for Male and age 25-34	LNWFLD_LNWFLG_A1A04	07420	4	N
lnwfld*lnwflg for Male and age 35-44	LNWFLD_LNWFLG_A1A05	07432	4	N
lnwfld*lnwflg for Male and age 45-54	LNWFLD_LNWFLG_A1A06	07444	4	N
lnwfld*lnwflg for Male and age 55-64	LNWFLD_LNWFLG_A1A07	07456	4	N
lnwfld*lnwflg for Male and age 65-99	LNWFLD_LNWFLG_A1A08	07468	4	N
lnwflg*lnwflg for Female and age 14-18	$LNWFLG2_A2A01$	07064	4	N
lnwflg*lnwflg for Female and age 14-99	$LNWFLG2_A2A00$	07052	4	N
lnwflg*lnwflg for Female and age 19-21	$LNWFLG2_A2A02$	07076	4	N
lnwflg*lnwflg for Female and age 22-24	$LNWFLG2_A2A03$	07088	4	N
lnwflg*lnwflg for Female and age 25-34	$LNWFLG2_A2A04$	07100	4	N
lnwflg*lnwflg for Female and age 35-44	$LNWFLG2_A2A05$	07112	4	N
lnwflg*lnwflg for Female and age 45-54	$LNWFLG2_A2A06$	07124	4	N
lnwflg*lnwflg for Female and age 55-64	$LNWFLG2_A2A07$	07136	4	N
lnwflg*lnwflg for Female and age 65-99	$LNWFLG2_A2A08$	07148	4	N
lnwflg*lnwflg for Male and Female and age 14-18	$LNWFLG2_A0A01$	07056	4	N
lnwflg*lnwflg for Male and Female and age 14-99	$LNWFLG2_A0A00$	07044	4	N
lnwflg*lnwflg for Male and Female and age 19-21	$LNWFLG2_A0A02$	07068	4	N
lnwflg*lnwflg for Male and Female and age 22-24	$LNWFLG2_A0A03$	07080	4	N
lnwflg*lnwflg for Male and Female and age 25-34	$LNWFLG2_A0A04$	07092	4	N
lnwflg*lnwflg for Male and Female and age 35-44	$LNWFLG2_A0A05$	07104	4	N
lnwflg*lnwflg for Male and Female and age 45-54	$LNWFLG2_A0A06$	07116	4	N
lnwflg*lnwflg for Male and Female and age 55-64	$LNWFLG2_A0A07$	07128	4	N
lnwflg*lnwflg for Male and Female and age 65-99	$LNWFLG2_A0A08$	07140	4	N
lnwflg*lnwflg for Male and age 14-18	$LNWFLG2_A1A01$	07060	4	N
lnwflg*lnwflg for Male and age 14-99	$LNWFLG2_A1A00$	07048	4	N
lnwflg*lnwflg for Male and age 19-21	$LNWFLG2_A1A02$	07072	4	N
lnwflg*lnwflg for Male and age 22-24	$LNWFLG2_A1A03$	07084	4	N
lnwflg*lnwflg for Male and age 25-34	$LNWFLG2_A1A04$	07096	4	N
lnwflg*lnwflg for Male and age 35-44	$LNWFLG2_A1A05$	07108	4	N
lnwflg*lnwflg for Male and age 45-54	LNWFLG2_A1A06	07120	4	N
lnwflg*lnwflg for Male and age 55-64	$LNWFLG2_A1A07$	07132	4	N
lnwflg*lnwflg for Male and age 65-99	$LNWFLG2_A1A08$	07144	4	N
$qwi_wcf^*qwi_unit_weight$	QWI_FINAL_WEIGHT	00016	8	N

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7.2.5 Summary information on datasets

Table 7.2: Number of observations for QWI

	Number of	Records	Filesize
Group	datafiles	(1000s)	(GB)
QWI	47	368,200	535

Table 7.3: List of data files for QWI, by state

File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)	
Alaska (ak)					
qwi_ak_seinunit	2000Q1	2008Q4	600	< 5	
Alabama (al)					
qwi_al_seinunit	2001Q1	2008Q4	3,500	5	
Arkansas (ar)					
$qwi_ar_seinunit$	2002Q3	2008Q4	1,800	< 5	
Arizona (az)					_
$qwi_az_seinunit$	2004Q1	2008Q4	2,400	< 5	
California (ca)					
qwi_ca_seinunit	1991Q3	2008Q4	65,800	90	
Colorado (co)					
qwi_co_seinunit	1993Q2	2008Q4	8,300	10	
Delaware (de)					
$qwi_de_seinunit$	1998Q3	2008Q4	1,000	< 5	
Florida (fl)					
$qwi_fl_seinunit$	1992Q4	2008Q4	27,100	40	
Georgia (ga)					
$qwi_ga_seinunit$	1998Q1	2008Q4	9,400	15	
Hawaii (hi)					
$qwi_hi_seinunit$	1995Q4	2008Q4	1,700	< 5	
Iowa (ia)					
$qwi_ia_seinunit$	1998Q4	2008Q4	3,600	5	
Idaho (id)					
qwi_id_seinunit	1991Q1	2008Q4	2,900	< 5	
Illinois (il)					
qwi_il_seinunit	1990Q1	2008Q4	20,700	30	
Indiana (in)					
qwi_in_seinunit	1998Q1	2008Q4	6,200	10	
Kansas (ks)					
qwi_ks_seinunit	1993Q1	2008Q4	4,800	5	
Kentucky (ky)					
$qwi_ky_seinunit$	2001Q1	2008Q4	2,900	< 5	
Louisiana (la)		<u> </u>			
qwi_la_seinunit	1995Q1	2008Q4	5,800	10	
Maryland (md)					
qwi_md_seinunit	1990Q1	2008Q4	9,500	15	
Maine (me)					
qwi_me_seinunit	1996Q1	2008Q4	2,100	< 5	
					(cont)

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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

K 7. QUARIERLY W			Continued	TUNII FILE (Q)	(V1)
File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)	
Michigan (mi)	5001010	Enarg	000. (10000)	Size (GB)	
qwi_mi_seinunit	2000Q3	2008Q4	6,900	10	
Minnesota (mn)		2000 461	0,000		
qwi_mn_seinunit	1994Q3	2008Q4	6,900	10	
Missouri (mo)	100140	2000 461	0,000		
qwi_mo_seinunit	1995Q1	2008Q4	8,500	15	
Mississippi (ms)	1000 4,1	2000 461			
qwi_ms_seinunit	2003Q3	2008Q4	1,400	< 5	
Montana (mt)	_00040	-00000	1,100		
qwi_mt_seinunit	1993Q1	2008Q4	2,100	< 5	
North Carolina (nc)		200000	2,100		
qwi_nc_seinunit	1992Q4	2008Q1	12,600	25	
North Dakota (nd)	1002@1	2000-071	12,000		
qwi_nd_seinunit	1998Q1	2008Q4	1,000	< 5	
Nebraska (ne)	10000	2000-	1,000		
qwi_ne_seinunit	1999Q1	2008Q4	2,200	< 5	
New Jersey (nj)	100001	200004	2,200	<u> </u>	
qwi_nj_seinunit	1996Q1	2008Q4	10,900	15	
New Mexico (nm)	100001	200004	10,300	10	
qwi_nm_seinunit	1995Q3	2008Q4	2,400	< 5	
Nevada (nv)	1330030	2000034	2,400		
qwi_nv_seinunit	1998Q1	2008Q4	2,500	< 5	
New York (ny)	1990Q1	200004	2,500		
qwi_ny_seinunit	2000Q1	2008Q4	17,700	25	
Ohio (oh)	2000Q1	200004	11,100	20	
qwi_oh_seinunit	2000Q1	2008Q4	9,600	15	
Oklahoma (ok)	2000Q1	2000Q4	9,000	10	
qwi_ok_seinunit	2000Q1	2008Q4	3,100	< 5	
Oregon (or)	2000Q1	2000Q4	3,100	< 0	
qwi_or_seinunit	100101	200804	7 600	10	
Pennsylvania (pa)	1991Q1	2008Q4	7,600	10	
· (- /	100701	2008Q4	17.600	20	
qwi_pa_seinunit Rhode Island (ri)	1997Q1	4000 Q 4	14,600	20	
qwi_ri_seinunit	100501	200004	1 700	/ E	
	1995Q1	2008Q4	1,700	< 5	
South Carolina (sc)	100901	200004	4 400	ĸ	
qwi_sc_seinunit	1998Q1	2008Q4	4,400	5	
South Dakota (sd)	100001	200004	1 100	/ E	
qwi_sd_seinunit	1998Q1	2008Q4	1,100	< 5	
Tennessee (tn)	100001	200204	£ £00	10	
qwi_tn_seinunit	1998Q1	2008Q4	5,500	10	
Texas (tx) qwi_tx_seinunit	100501	200004	27 400	40	
	1995Q1	2008Q4	27,400	40	
Utah (ut)	100002	200004	9.600	. E	
qwi_ut_seinunit	1999Q3	2008Q4	2,600	< 5	
Virginia (va)	100901	200004	0 000	10	
qwi_va_seinunit	1998Q1	2008Q4	8,200	10	
Vermont (vt)	200001	200004	900	/ E	
qwi_vt_seinunit	2000Q1	2008Q4	800	< 5	(01)
					(cont)

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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

Table 7.3 – Continued							
File name	StartYQ	EndYQ	Obs. $(1000s)$	Size (GB)			
Washington (wa)							
$qwi_wa_seinunit$	1990Q1	2008Q4	13,100	20			
Wisconsin (wi)							
$qwi_wi_seinunit$	1990Q1	2008Q4	10,400	15			
West Virginia (wv)							
$qwi_wv_seinunit$	1997Q1	2008Q4	2,200	< 5			
Wyoming (wy)							
$qwi_wy_seinunit$	2001Q1	2008Q4	700	< 5			

Number of files for each data set group and state. Aggregate size of all files in GB in parentheses.

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CHAPTER 7. QUARTERLY WORKFORCE INDICATORS - SEINUNIT FILE (QWI)

7.3 NOTES

• Alabama (AL), Kansas (KS), and South Carolina (SC) are currently missing from data archive. A request has been put in to include them.

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Chapter 8. Successor-Predecessor file (SPF)

8.1 OVERVIEW

The Successor-Predecessor File (SPF) is a suite of files providing intertemporal flow-based links based on wage records and administrative links. The file is not fully documented, researchers are advised to use the file with caution.

8.2 DETAILED DESCRIPTION

8.2.1 Definition of Successor-Predecessor

The successor-predecessor sequence creates four files. The primary files are the SPF (Successor-Predecessor File) which has a record for every link (whether that link is identified by employee flows from the UI wage records or from the successor-predecessor data on the ES-202) between SEINs, and the WSLF (Within-SEIN Links File) which has a record for every successor-predecessor link reported on the ES-202 between SEINUNITs within the same SEIN. The other files, SPH (PIK-SEIN History) are intermediate files used downstream by the sequence.

8.2.2 Update frequency

Quarterly.

8.2.3 Acquisition process

The Successor-Predecessor sequence waits for the creation of the ES-202 files and the EHF.

8.2.4 Processing description

First, we read the PIK-SEIN work history information from the EHF into simple character strings of 1's or 0's referring to whether or not the PIK has positive earnings at the SEIN in the quarter corresponding to the position in the character string. We then match up each end of job string experienced by a PIK with the beginning of job strings for that PIK at another SEIN which start in the same or subsequent quarter that the first job ends. We then sum up the number of such flows between each SEIN pair in a given quarter. If the number of transitioning employees and the SEINs involved satisfy certain criteria, then a link is recorded for that SEIN pair in that quarter. We then read in the successor-predecessor information from the ES-202 and divide the data into a within-SEIN links file and an across-SEIN links file. The across-SEIN links file is aggregated to the SEIN-level for comparability to the links formed with the UI wage records. Finally, the UI wage record links and the SEIN-level, ES-202 links are merged into one file.

8.3 DATA SET DESCRIPTIONS

Table 8.1: Number of observations for SPF

	Number of	Records	Filesize
Group	datafiles	(1000s)	(GB)
SPF	141	13,300	0

Table 8.2: List of data files for SPF, by state

File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)	
r ne name	Sort order		003. (10003)	Size (GD)	
Alaska (ak)	Sorr order				
spf_ak	2000Q3	2008Q2	< 100	< 5	
opizan		$s_succ qtin$			
spf_ak_sph	2000Q1	$\frac{2008\mathrm{Q4}}{2008\mathrm{Q4}}$	< 100	n.a.	
spf_ak_wslf	2000Q1	2008Q4	< 100	< 5	
Alabama (al)	2000	2000-021	V 100		
spf_al	2001Q3	2008Q2	< 100	< 5	
БРІДСІ	-	succ qtin			
spf_al_sph	2001Q1	$\frac{2008\mathrm{Q4}}{2008\mathrm{Q4}}$	< 100	n.a.	
spf_al_wslf	2001Q1	2008Q4	< 100	< 5	
Arkansas (ar)	2001@1	2000-001	V 100		
spf_ar	2003Q1	2008Q2	< 100	< 5	
БРІ-ші		succ qtin		< 0	
$-$ spf_ar_sph	$\frac{3002Q3}{2002Q3}$	$\frac{2008Q4}{2008Q4}$	< 100	n.a.	
spf_ar_wslf	2002Q3	2008Q4 2008Q4	< 100	< 5	
Arizona (az)	2002 @0	2000	V 100		
spf_az	2004Q3	2008Q2	< 100	< 5	
Sp1_az	-	$_{_succ\ qtin}$		< 0	
spf_az_sph	$\frac{3eth \ seth}{2004Q1}$	$\frac{2008Q4}{2008}$	< 100	n.a.	
$\frac{\text{spf_az_spff}}{\text{spf_az_wslf}}$	$\frac{2004Q1}{2004Q1}$	2008Q4 2008Q4	< 100	< 5	
California (ca)	2004Q1	2000024	< 100	<u> </u>	
spf_ca	1991Q3	2008Q2	2,700	< 5	
spr_ca		succ qtin		< 0	
spf_ca_sph	1991Q1	$\frac{2008\mathrm{Q4}}{2008\mathrm{Q4}}$	< 100	n.a.	
spf_ca_wslf	1991Q1 1991Q1	2008Q4 2008Q4	100	< 5	
Colorado (co)	1991Q1	2000Q4	100	< 0	
spf_co	1990Q3	2008Q2	300	< 5	
spr_co	-	$_{_succ\ qtin}$		< 0	
spf_co_sph	1990Q1	$\frac{2008\mathrm{Q4}}{2008\mathrm{Q4}}$	< 100	** 0	
				n.a.	
spf_co_wslf Delaware (de)	1990Q1	2008Q4	< 100	< 5	
` '	100702	200802	× 100	- F	
$\operatorname{spf_de}$	1997Q3	$2008Q2$ $succ\ qtim$	< 100	< 5	
and do anh				** 0	
spf_de_sph	1997Q1	2008Q4	< 100	n.a.	
spf_de_wslf	1997Q1	2008Q4	< 100	< 5	
Florida (fl)	100000	000000	1 100		
$\operatorname{spf}_{-} fl$	1989Q3	2008Q2	1,100	< 5	
-	sein sein	_succ qtin	ie		/
					(cont)

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8. SUCCESSO	It I Itabbe		8.2 - Continued		
File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)	
	Sort order		,		
spf_fl_sph	1989Q1	2008Q4	< 100	n.a.	
spf_fl_wslf	1989Q1	2008Q4	< 100	< 5	
Georgia (ga)					
$\operatorname{spf_ga}$	1998Q3	2008Q2	300	< 5	
-1 0-	-	_succ qtin			
spf_ga_sph	1998Q1	2008Q4	< 100	n.a.	
spf_ga_wslf	1998Q1	2008Q4	< 100	< 5	
Hawaii (hi)					
spf_hi	1996Q2	2008Q2	< 100	< 5	
- P	-	_succ qtin			
spf_hi_sph	1995Q4	2008Q4	< 100	n.a.	
spf_hi_wslf	1995Q4	2008Q4	< 100	< 5	
Iowa (ia)					
spf_ia	1990Q3	2008Q2	< 100	< 5	
~P*===		$_succ\ qtin$		` 3	
spf_ia_sph	1990Q1	2008Q4	< 100	n.a.	
spf_ia_wslf	1990Q1	2008Q4	< 100	< 5	
Idaho (id)	1000 4		(100		
spf_id	1991Q3	2008Q2	< 100	< 5	
БРІЛА	-	$_succ\ qtin$		\ 0	
$-$ spf_id_sph	1991Q1	$\frac{2008\mathrm{Q4}}{2008\mathrm{Q4}}$	< 100	n.a.	
spf_id_wslf	1991Q1	2008Q4 2008Q4	< 100	< 5	
Illinois (il)	1331&1	2000-24	< 100		
spf_il	1990Q3	2008Q2	600	< 5	
spr_m	_	$_succ \ qtin$		< 0	
spf_il_sph	1990Q1	$\frac{3acc\ qtin}{2008Q4}$	< 100	n.a.	
spf_il_wslf	1990Q1	2008Q4 2008Q4	< 100	< 5	
Indiana (in)	1330-61	2000024	< 100		
` '	1998Q3	2008Q2	200	_ F	
$\operatorname{spf_in}$	_	-	200	< 5	
anf in anh		$\frac{_succ\ qtin}{200204}$	< 100	** 0	
spf_in_sph	1998Q1	2008Q4 2008Q4	< 100	$\frac{\text{n.a.}}{<5}$	
spf_in_wslf	1998Q1	2006Q4	< 100	< 9	
Kansas (ks)	100002	200002	100	- F	
$\mathrm{spf}_{-}\mathrm{ks}$	1990Q3	2008Q2	100	< 5	
and lea and		_succ_qtin			
spf_ks_sph	1990Q1	2008Q4	< 100	n.a.	
spf_ks_wslf	1990Q1	2008Q4	< 100	< 5	
Kentucky (ky)	2001.02	200202	× 100		
$\operatorname{spf}_{-} ky$	2001Q3	2008Q2	< 100	< 5	
<u> </u>		_succ_qtin			
spf_ky_sph	2001Q1	2008Q4	< 100	n.a.	
spf_ky_wslf	2001Q1	2008Q4	< 100	< 5	
Louisiana (la)	100000	200000	F 00	. •	
spf la	1990Q3	2008Q2	500	< 5	
		_succ_qtin			
spf_la_sph	1990Q1	2008Q4	< 100	n.a.	
spf_la_wslf Maryland (md)	1990Q1	2008Q4	< 100	< 5	
1 1 1 / 1					

		Table	8.2 - Continued	CCLSSOI	TELDECESSOTE T
File name	StartYQ		Obs. (1000s)	Size (GB)	
	Sort order		Obs. (1000s)	Size (GD)	
- C 1			200		
$\operatorname{spf_md}$	1990Q3	2008Q2	200	< 5	
		n_succ qtim			
$\operatorname{spf_md_sph}$	1990Q1	2008Q4	< 100	n.a.	
spf_md_wslf	1990Q1	2008Q4	< 100	< 5	
Maine (me)					
$\operatorname{spf_me}$	1996Q3	2008Q2	< 100	< 5	
•		n_succ $qtim$	ne		
spf_me_sph	1996Q1	2008Q4	< 100	n.a.	
spf_me_wslf	1996Q1	2008Q4	< 100	< 5	
Michigan (mi)	1330@1	2000&4	< 100	<u> </u>	
_ (,	100000	000000	200		
spf _mi	1998Q3	2008Q2	300	< 5	
		n_succ_qtim			
spf_mi_sph	1998Q1	2008Q4	< 100	n.a.	
spf_mi_wslf	1998Q1	2008Q4	< 100	< 5	
Minnesota (mn)				
spf_mn	1995Q1	2008Q2	200	< 5	
1	-	n_succ $qtim$			
spf_mn_sph	1994Q3	2008Q4	< 100	n.a.	
spf_mn_wslf	1994Q3	2008Q4 2008Q4	< 100	< 5	
	1994Q3	2006Q4	< 100	< 0	
Missouri (mo)	100000	200000	200	. =	
$\operatorname{spf_mo}$	1990Q3	2008Q2	200	< 5	
		n_succ qtim			
spf_mo_sph	1990Q1	2008Q4	< 100	n.a.	
spf_mo_wslf	1990Q1	2008Q4	< 100	< 5	
Mississippi (ms)				
$\mathrm{spf}_{-}\mathrm{ms}$	2004Q1	2008Q2	< 100	< 5	
1	-	n_succ $qtim$			
spf_ms_sph	2003Q3	2008Q4	< 100	n.a.	
spf_ms_wslf	2003Q3	2008Q4 2008Q4	< 100	< 5	
	2003Q3	2006Q4	< 100	< 0	
Montana (mt)	100000	000000	. 100		
spf _mt	1993Q3	2008Q2	< 100	< 5	
		n_succ qtim			
$\operatorname{spf_mt_sph}$	1993Q1	2008Q4	< 100	n.a.	
spf_mt_wslf	1993Q1	2008Q4	< 100	< 5	
North Carolina	(nc)				
$\operatorname{spf_nc}$	1990Q3	2007Q3	500	< 5	
-	-	_succ qtim	ie		
spf_nc_sph	1990Q1	2008Q1	< 100	n.a.	
spf_nc_wslf	1990Q1	2008Q1	< 100	< 5	
North Dakota (r		2000@1	< 100		
,		200000	- 100	- F	
$\operatorname{spf_nd}$	1998Q3	2008Q2	< 100	< 5	
		n_succ qtim			
spf_nd_sph	1998Q1	2008Q4	< 100	n.a.	
spf_nd_wslf	1998Q1	2008Q4	< 100	< 5	
Nebraska (ne)					
spf_ne	1999Q3	2008Q2	< 100	< 5	
_	-	$n_succ\ qtim$			
spf_ne_sph	1999Q1	2008Q4	< 100	n.a.	
			. 200		(cont)
					(cont)

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, o. BUCCESSO	ישטשור 1-1				
T) 1	CL INO		3.2 – Continued	G: (GD)	
File name	StartYQ		Obs. (1000s)	Size (GB)	
	Sort order		. 100		
spf_ne_wslf	1999Q1	2008Q4	< 100	< 5	
New Jersey (nj)		200000	200		
spf nj	1995Q3	2008Q2	200	< 5	
		n_succ qtim			
spf_nj_sph	1995Q1	2008Q4	< 100	n.a.	
$\mathrm{spf}_{-}\mathrm{nj}_{-}\mathrm{wslf}$	1995Q1	2008Q4	< 100	< 5	
New Mexico (nn					
$\operatorname{spf_nm}$	1990Q3	2008Q2	< 100	< 5	
	sein seir	n_succ qtim	e		
spf_nm_sph	1990Q1	2008Q4	< 100	n.a.	
spf_nm_wslf	1990Q1	2008Q4	< 100	< 5	
Nevada (nv)		•			
$\operatorname{spf_nv}$	1998Q3	2008Q2	100	< 5	
•	-	n_succ $qtim$			
spf_nv_sph	1998Q1	2008Q4	< 100	n.a.	
spf_nv_wslf	1998Q1	2008Q4	< 100	< 5	
New York (ny)					
spf_ny	1990Q3	2008Q2	700	< 5	
БРЕНУ	-	$n_succ\ qtim$		\ 0	
spf_ny_sph	1990Q1	$\frac{2008Q4}{2008Q4}$	< 100	n.a.	
spf_ny_wslf	1990Q1	2008Q4 2008Q4	< 100	< 5	
Ohio (oh)	1990Q1	2000024	< 100	< 0	
spf_oh	200002	2008Q2	300	<i>-</i> 5	
spr_on	2000Q3	-		< 5	
£ _11		n_succ qtim			
spf_oh_sph	2000Q1	2008Q4	< 100	n.a.	
spf_oh_wslf	2000Q1	2008Q4	< 100	< 5	
Oklahoma (ok)	100000	200000	100	_	
spf ok	1999Q3	2008Q2	< 100	< 5	
		n_succ_qtim			
spf_ok_sph	1999Q1	2008Q4	< 100	n.a.	
$\mathrm{spf_ok_wslf}$	1999Q1	2008Q4	< 100	< 5	
Oregon (or)					
$\operatorname{spf_or}$	1990Q3	2008Q2	200	< 5	
	sein seir	n_succ qtim	e		
spf_or_sph	1990Q1	2008Q4	< 100	n.a.	
spf_or_wslf	1990Q1	2008Q4	< 100	< 5	
Pennsylvania (p	a)				
spf_pa	1991Q3	2008Q2	500	< 5	
		n_succ qtim	e		
$-$ spf_pa_sph	1991Q1	2008Q4	< 100	n.a.	
spf_pa_wslf	1991Q1	2008Q4	< 100	< 5	
	1)				
Rhode Island (ri	,	2008Q2	< 100	< 5	
	1990Q3	2008Q2	< 100	< 5	
Rhode Island (ri	1990Q3 sein sein	n_succ qtim	ie.		
Rhode Island (rispf_rispf_rispf_risph	1990Q3 <u>sein seir</u> 1990Q1	$\frac{n_succ\ qtim}{2008\mathrm{Q4}}$	< 100	n.a.	
Rhode Island (rispf_ri spf_ri_sph spf_ri_wslf	1990Q3 sein sein 1990Q1 1990Q1	n_succ qtim	ie.		
Rhode Island (rispf_rispf_rispf_risph	1990Q3 sein sein 1990Q1 1990Q1	$\frac{n_succ\ qtim}{2008\mathrm{Q4}}$	< 100	n.a.	

		Table 8	8.2 – Continued		
File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)	
	Sort order				
-	sein sein	n_succ qtin	\overline{ne}		_
spf_sc_sph	1998Q1	2008Q4	< 100	n.a.	
spf_sc_wslf	1998Q1	2008Q4	< 100	< 5	
South Dakota (
spf_sd	1998Q3	2008Q2	< 100	< 5	
БРІДВА		$n_succ qtin$		~ 0	
spf_sd_sph	1998Q1	$\frac{2008\mathrm{Q4}}{2008\mathrm{Q4}}$	< 100	n.a.	
spf_sd_wslf	1998Q1	2008Q4 2008Q4	< 100	< 5	
Tennessee (tn)	1330@1	2000034	< 100		
, ,	100902	200802	200	- 5	
spf_tn	1998Q3	2008Q2	200	< 5	
- C + 1		n_succ qtin			
spf_tn_sph	1998Q1	2008Q4	< 100	n.a.	
spf_tn_wslf	1998Q1	2008Q4	< 100	< 5	
Texas (tx)				_	
$\mathrm{spf}\mathrm{tx}$	1990Q3	2008Q2	1,100	< 5	
		n_succ qtin			
$\operatorname{spf_tx_sph}$	1990Q1	2008Q4	< 100	n.a.	
spf_tx_wslf	1990Q1	2008Q4	< 100	< 5	
Utah (ut)					
spf _ut	1990Q3	2008Q2	100	< 5	
	sein sein	n_succ qtin	ie		
spf_ut_sph	1990Q1	2008Q4	< 100	n.a.	
spf_ut_wslf	1990Q1	2008Q4	< 100	< 5	
Virginia (va)	•				
spf _va	1996Q1	2008Q2	200	< 5	
1	-	$n_succ qtin$			
spf_va_sph	1995Q3	2008Q4	< 100	n.a.	
spf_va_wslf	1995Q3	2008Q4	< 100	< 5	
Vermont (vt)	1330 Q3	2000034	< 100	<u> </u>	
$\operatorname{spf_vt}$	2000Q3	200802	< 100	- 5	
spr_vt	-	2008Q2		< 5	
- C 4 1		$\frac{1-succ\ qtin}{2000004}$			
$\frac{\text{spf_vt_sph}}{\text{f}}$	2000Q1	2008Q4	< 100	n.a.	
spf_vt_wslf	2000Q1	2008Q4	< 100	< 5	
Washington (wa	_	200000	~ 00	Į.	
spf _wa	1990Q3	2008Q2	500	< 5	
		n_succ qtin			
$\operatorname{spf_wa_sph}$	1990Q1	2008Q4	< 100	n.a.	
spf_wa_wslf	1990Q1	2008Q4	< 100	< 5	
Wisconsin (wi)					
spf _wi	1990Q3	2008Q2	300	< 5	
	sein sein	n_succ qtin	ie		
spf_wi_sph	1990Q1	2008Q4	< 100	n.a.	
spf_wi_wslf	1990Q1	2008Q4	< 100	< 5	
West Virginia (-	0 -			
spf_wv	1990Q3	2008Q2	< 100	< 5	
obr-w v		$1_succ qtin$		< 0	
$-$ spf_wv_sph	1990Q1	$\frac{\iota_{\text{-}}succ\ q\iota\iota\iota\iota}{2008\text{Q4}}$	< 100	no	
sh_r_w _sh_	199061	200004	× 100	n.a.	(cont)
					(cont)

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CHAPTER 8. SUCCESSOR-PREDECESSOR FILE (SPF)

	Table 8.2 – Continued						
	File name	StartYQ	EndYQ	Obs. $(1000s)$	Size (GB)		
		Sort order	•				
	$\mathrm{spf}_{-}\mathrm{wv}_{-}\mathrm{wslf}$	1990Q1	2008Q4	< 100	< 5		
	Wyoming (wy)						
	spf _wy	2001Q3	2008Q2	< 100	< 5		
	spf_wy_sph	2001Q1	2008Q4	< 100	n.a.		
	spf_wy_wslf	2001Q1	2008Q4	< 100	< 5		
_							

Number of files for each data set group and state. Aggregate size of all files in GB in parentheses.

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8.4 NOTES

 \bullet As of December 2010, the SPH file is missing from S2008 snapshot for all states.

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Chapter 9. Unit-to-Worker Impute - Job location impute (U2W)

9.1 OVERVIEW

The UI records underlying the LEHD Infrastructure files provide neither establishment identifiers (except for Minnesota), nor industry or geographic detail of the establishment, only a firm identifier. Between 60 and 70 percent of state-level employment is in single-unit employers (employers with only one establishment), for which a link through the firm identifier is sufficent to provide such detail. For the remaining 30 to 40 percent of employment, such links have to be imputed. The Unit-to-Worker Impute (U2W) file contains ten imputed establishments for each employee of a multi-unit employer. The file can be linked to other Census Bureau datasets through the PIK and the LEHD SEIN-SEINUNIT.

9.2 DETAILED DESCRIPTION

A primary objective of the QWI is to provide employment, job and worker flows, and wage measures at a very detailed levels of geography (place-of-work) and industry. The structure of the administrative data received by LEHD from state partners, however, poses a challenge to achieving this goal. QWI measures are primarily based on the processing of UI wage records which report, with the exception of Minnesota, only the legal employer (SEIN) of the workers. The ES-202 micro-data, however, are comprised of establishment-level records which provide the geographic and industry detail needed to produce the QWI. For employers operating only one establishment within a state, the assignment of establishment-level characteristics to UI wage records is straightforward because there is no distinction between the employer and the establishment. However, approximately 30 to 40 percent of state-level employment is concentrated in employers that operate more than one establishment in that state. For these multi-unit employers, the SEIN on workers' wage records identifies the legal employer in the ES-202 data, but not the employing establishment (place-of-work). Thus, establishment level characteristics—geography and industry, in particular—are missing data for these multi-unit job histories.

In order to impute establishment-level characteristics to job histories of multi-unit employers, a non-ignorable missing data model with multiple imputation was developed. The model imputes establishment-of-employment using two key characteristics available in the LEHD Infrastructure Files: 1) distance between place-of-work and place-of-residence and 2) the distribution of employment across establishments of multi-unit employers. The distance to work model is estimated using data from Minnesota, where both the SEIN and SEINUNIT identifiers appear on a UI wage record. Then, the posterior distribution of the parameters from this estimation, combined with the actual SEIN and SEINUNIT employment histories from the ES-202 data, are used for multiple imputation of the SEINUNIT associated with for workers in a given SEIN in the data from states other than Minnesota.¹ Emerging from this process is an output file, called the Unit-to-

¹The actual SEINUNIT coded on the UI wage records is used for Minnesota, and would be used for any other state that provided such data. Note that there are occasional, and rare, discrepancies between the unit structure on the Minnesota wage records and the unit structure on the Minnesota ES-202 data for the same quarter. These discrepancies are resolved during the

Worker (U2W) file, containing ten imputed establishments for each worker of a multi-unit employer. These implicates are then used in the downstream processing of the QWI.

The U2W process relies on information from each of the four Infrastructure Files—ECF, GAL, EHF, and ICF—as well as the auxiliary SPF file. Within the ECF, the universe of multi-unit employers is identified. For these employers, the ECF also provides establishment-level employment, date-of-birth, and geocodes (which are acquired from the GAL). The SPF contains information on predecessor relationships which may lead to the revision of date-of-birth implied by the ECF. Finally, job histories in the EHF in conjunction with place-of-residence information stored in the ICF provide the necessary worker information needed to estimate and apply the imputation model.

9.2.1 A probability model for employment location

9.2.1.1 Definitions

Let i = 1, ..., I index workers, j = 1, ..., J index employers (SEINs), and t = 1, ..., T index time (quarters). Let R_{jt} denote the number of active establishments at employer j in quarter t, let $\Re = \max_{j,t} R_{jt}$, and $r = 1, ..., \Re$ index establishments. Note that the index r is nested within j. Let N_{jrt} denote the quarter t employment of establishment r in employer j. Finally, if worker i was employed at employer j in t, denote by y_{ijt} the establishment at which the worker was employed.

Let \mathcal{J}_t denote the set of employers active in quarter t, let \mathcal{I}_{jt} denote the set of individuals employed at employer j in quarter t, let \mathcal{R}_{jt} denote the set of active $(N_{jrt} > 0)$ establishments at employer j in t, and let $\mathcal{R}_{jt}^i \subset \mathcal{R}_{jt}$ denote the set of active establishments that are feasible for worker i. Feasibility is defined as follows. An establishment $r \in \mathcal{R}_{jt}^i$ if $N_{jrs} > 0$ for every quarter s that i was employed at j.

9.2.1.2 The probability model

Let $p_{ijrt} = \Pr(y_{ijt} = r)$. At the core of the model is the probability statement:

$$p_{ijrt} = \frac{e^{\alpha_{jrt} + x'_{ijrt}\beta}}{\sum_{s \in \mathcal{R}^i_{ijt}} e^{\alpha_{jst} + x'_{ijst}\beta}}$$
(9.1)

where α_{jrt} is a establishment- and quarter-specific effect, x_{ijrt} is a time-varying vector of characteristics of the worker and establishment, and β measures the effect of characteristics on the probability of being employed at a particular establishment. In the current implementation, x_{ijrt} is a linear spline in the (great-circle) distance between worker i's residence and the physical location of establishment r. The spline has knots at 25, 50, and 100 miles.

Using (9.1), the following likelihood is defined

$$p(y|\alpha, \beta, x) = \prod_{t=1}^{T} \prod_{j \in \mathcal{J}_t} \prod_{i \in \mathcal{I}_{jt}} \prod_{r \in \mathcal{R}_{jt}^i} (p_{ijrt})^{d_{ijrt}}$$

$$(9.2)$$

where

$$d_{ijrt} = \begin{cases} 1 & \text{if } y_{ijt} = r \\ 0 & \text{otherwise} \end{cases}$$
 (9.3)

and where y is the appropriately-dimensioned vector of the outcome variables y_{ijt} , α is the appropriately-dimensioned vector of the α_{jrt} , and x is the appropriately-dimensioned matrix of characteristics x_{ijrt} . For α_{jrt} , a hierarchical Bayesian model based on employment counts N_{jrt} is specified.

initial processing of the Minnesota data in its state-specific readin procedures.

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The object of interest is the joint posterior distribution of α and β . A uniform prior on β , $p(\beta) \propto 1$ is assumed. The characterization of $p(\alpha, \beta | x, y, N)$ is based on the factorization

$$p(\alpha, \beta | x, y, N) = p(\alpha | N) p(\beta | \alpha, x, y)$$

$$\propto p(\alpha | N) p(\beta) p(y | \alpha, \beta, x)$$

$$\propto p(\alpha | N) p(y | \alpha, \beta, x).$$
(9.4)

Thus, the joint posterior (9.4) is completely characterized by the posterior of α and the likelihood of y in (9.2). Note (9.2) and (9.4) assume that the employment counts N affect employment location y only through the parameters α .

9.2.1.3 Estimation

The joint posterior $p(\alpha, \beta|x, y, N)$ is approximated at the posterior mode. In particular, we estimate the posterior mode of $p(\beta|\alpha, x, y)$ evaluated at the posterior mode of α . From these we compute the posterior modal values of the α_{jrt} , then, maximize the log posterior density

$$\log p(\beta | \alpha, x, y) \propto \sum_{t=1}^{T} \sum_{j \in \mathcal{I}_t} \sum_{i \in \mathcal{I}_{jt}} \sum_{r \in \mathcal{R}_{jt}^i} d_{ijrt} \left(\alpha_{jrt} + x'_{ijrt} \beta - \log \left(\sum_{s \in \mathcal{R}_{jt}^i} e^{\alpha_{jst} + x'_{ijst} \beta} \right) \right)$$
(9.5)

which is evaluated at the posterior modal values of the α_{jrt} , using a modified Newton-Raphson method. The mode-finding exercise is based on the gradient and Hessian of (9.5). In practice, (9.5) is estimated for three employer employment size classes: 1-100 employees, 101-500 employees, and greater than 500 employees, using data for Minnesota.

9.2.2 Imputing place of work

After estimating the probability model using Minnesota data, the posterior distribution of the estimated β parameters is combined with the entity specific posterior distribution of the α parameters in the imputation process for other states. A brief outline of the imputation method, as it relates to the probability model previously discussed, is provided in this section. Emphasis is placed on not only the imputation process itself, but also the preparation of input data.

9.2.2.1 Sketch of the imputation method

Ignoring temporal considerations, 10 implicates are generated as follows. First, using the posterior mean and variance of β estimated from the Minnesota data, we take 10 draws of β from the normal approximation (at the mode) to $p(\beta|\alpha,x,y)$. Next, using ES-202 employment counts for the establishments, we compute 10 values of α_{jt} based on the hierarchical model for these parameters. Note that these are draws from the exact posterior distribution of the α_{jrt} . The drawn values of α and β are used to draw 10 imputed values of place of work from the asymptotic approximation to the posterior predictive distribution

$$p(\tilde{y}|x,y) = \int \int p(\tilde{y}|\alpha,\beta,x,y) p(\alpha|N) p(\beta|\alpha,x,y) d\alpha d\beta.$$
(9.6)

9.2.2.2 Implementation

Establishment data Using state-level micro-data, the set of employers (SEINs) that ever operate more that one establishment in a given quarter is identified; these SEINs represent the set of ever-multi-unit employers defined above as the set \mathcal{J}_t . For each of these employers, its establishment-level records are identified. For each establishment, latitude and longitude coordinates, parent employer (SEIN) employment, and ES-202 month-one employment² for the entire history of the establishment are retained. Those establishments

²In rare instances where no ES-202 employment is available, an alternative employment measure based on UI wage record counts may be used.

with positive month-one employment in a given quarter characterize \mathcal{R}_{jt} , the set of all active establishments. An establishment birth date is identified and, in most cases, is the first quarter in the ES-202 time series in which the establishment has positive month-one employment. For some employers, predecessor relationships are identified in the SPF; in those instances, the establishment date-of-birth is adjusted to coincided with that of the predecessor's.

Worker data The EHF provides the earnings histories for employees of the ever-multi-unit employers. For each in-scope job (a worker-employer pair), one observation is generated for the end of each job spell, where a job spell is defined as a continuum of quarters of positive earnings for worker at a particular employer during which there are no more than 3 consecutive periods of non-positive earnings.³ The start date of the job history is identified as the first quarter of positive earnings; the end date is the last date of positive earnings.⁴ These job spells characterize the set \mathcal{I}_{jt}

Candidates Once the universe of establishments and workers is identified, data are combined and a priori restrictions and feasibility assumptions are imposed. For each quarter of the date series, the history of every job spell that ends in that quarter is compared to the history of every active (in terms of ES-202 first month employment) establishment of the employing employer (SEIN). The start date of the job spell is compared to the birth date of each establishment. Establishments that were born after the start of a job spell are immediately discarded from the set of candidate establishments. The remaining establishments constitute the set $\mathcal{R}_{it}^i \subset \mathcal{R}_{jt}$ for a job spell (worker) at a given employer.⁵

Given the structure of the pairing of job spells with candidate establishments, it is clear that within job spell changes of establishment are ruled-out. An establishment is imputed once for each job spell, ⁶ thereby creating no spurious labor market transitions.

Imputation and output data Once the input data are organized, a set of 10 imputed establishment identifiers are generated for each job spell ending in every quarter for which both ES-202 and UI wage records exist. For each quarter, implicate, and size class, s = 1, 2, 3, the parameters on the linear spline in distance between place-of-work and place-of-residence $\hat{\beta}^s$ are sampled from the normal approximation of the posterior predictive distribution of β^s conditional on Minnesota (MN)

$$p(\beta^s | \alpha_{MN}, x_{MN}, y_{MN}) \tag{9.7}$$

The draws from this distribution vary across implicates, but not across time, employers, and individuals. Next, for each employer j at time t, a set of $\hat{\alpha}_{jrt}$ are drawn from

$$p\left(\alpha_{ST}|N_{ST}\right) \tag{9.8}$$

which are based on the ES-202 month-one employment totals (N_{irt}) for all candidate establishments $r_{it} \subset$ \mathcal{R}_{it} at employer j within the state (ST) being processed. The initial draws of $\hat{\alpha}_{irt}$ from this distribution vary across time and employers but not across job spells. Combining (9.7) and (9.8) yields

$$p(\alpha_{ST}|N_{ST}) p(\beta^{s}|\alpha_{MN}, x_{MN}, y_{MN})$$

$$\approx p(\alpha_{ST}|N_{ST}) p(\beta^{s}|\alpha_{ST}, x_{ST}, y_{ST})$$

$$= p(\alpha_{ST}, \beta_{ST}|x_{ST}, y_{ST}, N_{ST}),$$
(9.9)

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³A new hire is defined in the QWI as a worker who accedes to a firm in the current period but was not employed by the same firm in any of the 4 previous periods. A new job spell is created if, for example, a worker leaves a firm for more than 4 quarters and is subsequently re-employed by the same firm.

⁴By definition, an end-date for a job spell is not assigned in cases where a quarter of positive earnings at a firm is succeeded by 4 or fewer quarters of non-employment and subsequent re-employment by the same firm.

⁵The sample of UI wage and QCEW data chosen for processing of the QWI is such that the start and end dates are the same. Birth and death dates of establishments are, more precisely, the dates associated with the beginning and ending of employment activity observed in the data. The same is true for the dates assigned to the job spells.

 $^{^6}$ More specifically, an establishment is imputed to a job spell only once within each implicate.

an approximation of the joint posterior distribution of α and β^s (9.4) conditional on data from the state being processed.

The draws $\hat{\beta}^s$ and $\hat{\alpha}_{jrt}$ in conjunction with the establishment, employer, and job spell data are used to construct the p_{ijrt} in (9.1) for all candidate establishments $r \in \mathcal{R}^i_{jt}$. For each job spell and candidate establishment combination, the $\hat{\beta}^s$ are applied to the calculated distance between place-of-residence (of the worker holding the job spell) and the location of the establishment, where the choice of $\hat{\beta}^s$ depends on the size class of the establishment's parent employer. For each combination an $\hat{\alpha}_{jrt}$ is drawn which is based primarily on the size (in terms of employment) of the establishment relative to other active establishments at the parent employer. In conjunction, these determine the conditional probability p_{ijrt} of a candidate establishment's assignment to a given job spell. Finally, from this distribution of probabilities is drawn an establishment of employment.

The imputation process yields a data file containing a set of 10 imputed establishment identifiers for each job spell. In a very small set of cases, the model fails to impute an establishment to a job spell. This is often due to unanticipated idiosyncrasies in the underlying administrative data. Furthermore, across states, the proportion of these failures relative to successful imputation is well under 0.5%. For these job spells, a dummy establishment identifier is assigned and in downstream processing, the employment-weighted modal employer-level characteristics are used.

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9.3 DATA SET DESCRIPTIONS

9.3.1 Naming scheme

The U2W contains a single file per state:

u2w_zz.sas7bdat

ZZ stands for the state postal abbreviation. You will find zero-observation SAS datasets attached to this document - see the attachment tab.

9.3.2 Data location

The files are stored in a main directory, with state-specific subdirectories:

u2w/ZZ/

On the RDC network, the directory can be found under

/mixed/lehd/current

9.3.3 Main dataset: u2w_zz

This files contain the 10 imputed establishment identifiers are generated for each job spell.

Record identifier PIK SEIN NEW_HIST_FLAG

Sort order PIK SEIN NEW_HIST_FLAG

Entity Job spell

Unique Entity Key PIK SEIN

Field name	Data dictionary	Starting	Field	Data
	reference name	position	size	type
Start of spell YYYY.F (e.g. $2000Q2 = 2000.25$)	FIRST_DATE	00008	3	N
End of spell YYYY.F (e.g. $2000Q4 = 2000.75$)	LAST_DATE	00011	3	N
Spell number for same SEIN	NEW_HIST_FLAG	00014	3	N
Protected Identification Key	PIK	00017	9	A/N
State Employer Identification Number	SEIN	00026	12	A/N
State UI Reporting Unit Number (Impute 1)	IMPUTED_UNIT_1	00038	5	A/N
State UI Reporting Unit Number (Impute 10)	IMPUTED_UNIT_10	00083	5	A/N
State UI Reporting Unit Number (Impute 2)	IMPUTED_UNIT_2	00043	5	A/N
State UI Reporting Unit Number (Impute 3)	IMPUTED_UNIT_3	00048	5	A/N
State UI Reporting Unit Number (Impute 4)	IMPUTED_UNIT_4	00053	5	A/N
State UI Reporting Unit Number (Impute 5)	IMPUTED_UNIT_5	00058	5	A/N
State UI Reporting Unit Number (Impute 6)	IMPUTED_UNIT_6	00063	5	A/N
State UI Reporting Unit Number (Impute 7)	IMPUTED_UNIT_7	00068	5	A/N
State UI Reporting Unit Number (Impute 8)	IMPUTED_UNIT_8	00073	5	A/N
State UI Reporting Unit Number (Impute 9)	IMPUTED_UNIT_9	00078	5	A/N

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9.3.4 Summary information on datasets

Table 9.2: Number of observations for U2W

	Number of	Records	Filesize
Group	datafiles	(1000s)	(GB)
U2W	46	481,400	35

Table 9.3: List of data files for U2W, by state

File name	StartYQ	EndYQ	Obs. (1000s)	Size (GB)	
Alaska (ak)					
$u2w_ak$	2000Q1	2008Q4	800	< 5	
Alabama (al)					
$u2w_{-}al$	2001Q1	2008Q4	6,000	< 5	
Arkansas (ar)					
$u2w_{-}ar$	2002Q3	2008Q4	2,900	< 5	
Arizona (az)					
$u2w_{-}az$	2004Q1	2008Q4	2,800	< 5	
California (ca)				
$u2w_ca$	1991Q3	2008Q4	71,600	5	
Colorado (co)					
$u2w_co$	1993Q2	2008Q4	11,400	< 5	
Delaware (de)					
$u2w_{-}de$	1998Q3	2008Q4	800	< 5	
Florida (fl)					
$\mathrm{u}2\mathrm{w}$ _fl	1992Q4	2008Q4	41,100	< 5	
Georgia (ga)					
$u2w_{-}ga$	1998Q1	2008Q4	15,700	< 5	
Hawaii (hi)					
u2w_hi	1995Q4	2008Q4	1,600	< 5	
Iowa (ia)					
u2w_ia	1998Q4	2008Q4	5,400	< 5	
Idaho (id)					
u2w_id	1991Q1	2008Q4	2,700	< 5	
Illinois (il)					
u2w_il	1990Q1	2008Q4	21,400	< 5	
Indiana (in)					
$u2w_i$ in	1998Q1	2008Q4	10,800	< 5	
Kansas (ks)					
$u2w_ks$	1993Q1	2008Q4	5,400	< 5	
Kentucky (ky)				
$u2w_ky$	2001Q1	2008Q4	5,000	< 5	
Louisiana (la)					
u2w_la	1995Q1	2008Q4	8,100	< 5	
Maryland (md)				
u2w_md	1990Q1	2008Q4	10,900	< 5	
Maine (me)					
$u2w_me$	1996Q1	2008Q4	1,900	< 5	
					(cont)

Table 9.3 – Continued							
File name StartYQ	EndYQ	Obs. $(1000s)$	Size (GB)				
Michigan (mi)							
$u2w_mi$ 2000Q3	2008Q4	7,400	< 5				
Missouri (mo)							
u2w_mo 1995Q1	2008Q4	13,600	< 5				
Mississippi (ms)							
u2w_ms 2003Q3	2008Q4	2,000	< 5				
Montana (mt)		•					
u2w_mt 1993Q1	2008Q4	1,300	< 5				
North Carolina (nc)		,					
u2w_nc 1992Q4	2008Q1	22,600	< 5				
North Dakota (nd)		,					
u2w_nd 1998Q1	2008Q4	900	< 5				
Nebraska (ne)	20000						
u2w_ne 1999Q1	2008Q4	2,600	< 5				
New Jersey (nj)	2000-0-	2,000					
u2w_nj 1996Q1	2008Q4	11,300	< 5				
New Mexico (nm)	200004	11,500					
u2w_nm 1995Q3	2008Q4	2.700	_ F				
•	2006Q4	2,700	< 5				
Nevada (nv)	200204	4 100					
u2w_nv 1998Q1	2008Q4	4,100	< 5				
New York (ny)	200004	10 500					
u2w_ny 2000Q1	2008Q4	19,500	< 5				
Ohio (oh)	200004	40 500	_				
<u>u2w_oh</u> 2000Q1	2008Q4	16,500	< 5				
Oklahoma (ok)							
u2w_ok 2000Q1	2008Q4	4,300	< 5				
Oregon (or)							
u2w_or 1991Q1	2008Q4	8,200	< 5				
Pennsylvania (pa)							
u2w_pa 1997Q1	2008Q4	21,200	< 5				
Rhode Island (ri)							
u2w_ri 1995Q1	2008Q4	1,100	< 5				
South Carolina (sc)							
$u2w_sc$ 1998Q1	2008Q4	5,400	< 5				
South Dakota (sd)							
$u2w_sd$ 1998Q1	2008Q4	1,000	< 5				
Tennessee (tn)							
u2w_tn 1998Q1	2008Q4	8,500	< 5				
Texas (tx)		,					
u2w_tx 1995Q1	2008Q4	54,200	< 5				
Utah (ut)		,					
u2w_ut 1999Q3	2008Q4	4,900	< 5				
Virginia (va)		-,- 30					
u2w_va 1998Q1	2008Q4	12,000	< 5				
Vermont (vt)	_0000@ i	12,000					
u2w_vt 2000Q1	2008Q4	500	< 5				
Washington (wa)	200004	500					
u2w_wa 1990Q1	200804	19 200	/ E				
<u>u2w_wa 1990Q1</u>	2008Q4	12,300	< 5	(cont)			
				(cont)			

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Table 9.3 – Continued						
File name	StartYQ	EndYQ	Obs. $(1000s)$	Size (GB)		
Wisconsin (wi)						
u2wwi	1990Q1	2008Q4	13,600	< 5		
West Virginia (wv)						
u2wwv	1997Q1	2008Q4	2,800	< 5		
Wyoming (wy)						
u2w_wy	2001Q1	2008Q4	600	< 5		

Number of files for each data set group and state. Aggregate size of all files in GB in parentheses.

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9.4 NOTES

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CHAPTER 9. UNIT-TO-WORKER IMPUTE - JOB LOCATION IMPUTE (U2W) Space for your notes

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9.5 ACRONYMS USED

ASM Annual Survey of Manufacturers

BED Business Employment Dynamics

BES Business Expenditure Survey

BLS Bureau of Labor Statistics

BR Business Register, formerly known as the SSEL

BRB Business Register Bridge

CBSA Core-Based Statistical Area

CEW Covered Employment and Wages

CFN Census File Number

CM Census of Manufactures

CPR Census place of residence (file)

CPS Current Population Survey

DRB Disclosure Review Board

ECF Employer Characteristics File

ES-202 ES-202. An older name for the QCEW program

EHF Employment History Files

EIN (federal) Employer Identification Number

FIPS Federal Information Processing Standards codes issued by National Institute of Standards and Technology (NIST)

FTI Federal Tax Information, typically covered under Title 26, U.S.C.

GAL Geocoded Address List

ICF Individual Characteristics File

IRS Internal Revenue Service

IRS Internal Revenue Service

LBD Longitudinal Business Database

LBDB LBD Bridge

LDB Longitudinal Data Base

LED Local Employment Dynamics

LEHD Longitudinal Employer-Household Dynamics

LMI Labor Market Information

 $\mathbf{MAF}\,$ Master Address File

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MN Minnesota

MSA Metropolitan Statistical Area

NAICS North American Industry Coding System

NIST National Institute of Standards and Technology

OTM OnTheMap

PHF Person History File

PIK Protected Identity Key

PPN Permanent Plant Number

QCEW Quarterly Census of Employment and Wages, managed by the Bureau of Labor Statistics (BLS)

QWI Quarterly Workforce Indicators

RDC Research Data Center

SEIN State employer identification number. It is constructed from the state Federal Information Processing Standards (FIPS) code and the UI account number. The BLS refers to the UI account number in combination with the reporting unit number as SESA-ID

SEINUNIT SEIN reporting unit

SESA State Employment Security Agency

SIC Standard Industry Classification

SIPP Survey of Income and Program Participation

SPF Successor-Predecessor File

SSA Social Security Administration

SSN Social Security Number

U2W Unit-to-Worker Impute

UI unemployment insurance

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9.6 ERRATA

Release 165:

• ICF: county_live and countyliveimputed were wrongly attributed to the FTI-free file. county_live is FTI. This has been corrected.

Please report any additional errors to the authors of this document.

Data availability 2008-09-09: The following GAL-ES202 crosswalk files $(gal_XX_2003_xwalk_YYYY)$ do not actually contain any data:

```
KY 2001
MO 1990-1994
NC 1990-1998
UT 2000
```

We do not foresee replacing these files. These will hopefully be corrected in S2007.

2008-09-09: The following file is missing in LEHDLITE and S2004. It is no longer available in archive, and will not be replaced. A correction should be available for S2007:

qwi/al/qwi_al_seinunit.sas7bdat

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